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PROMIS SERIES

VOLUME 7

**GOES 5 and GOES 6 Geosynchronous
Magnetic Field Data
for March-June 1986**



National Aeronautics and
Space Administration

Goddard Space Flight Center

(NASA-TM-105072) PROMIS SERIES. VOLUME 7:
GOES 5 AND GOES 6 GEOSYNCHRONOUS MAGNETIC
FIELD DATA FOR MARCH - JUNE 1986 (NASA)
104 p CSCL 03B

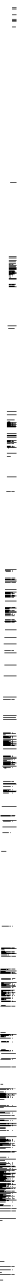
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**GOES 5 and GOES 6 Geosynchronous
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for March-June 1986**

November 1989

Prepared by

D. H. Fairfield

**Lab. for Extraterrestrial Physics, NASA Goddard Space Flight Center
and**

K. Takahashi

Applied Physics Laboratory, Johns Hopkins University, Laurel, Maryland

Foreword

This is the seventh in a series of volumes pertaining to the Polar Region Outer Magnetosphere International Study (PROMIS). It contains 24 hour plots of approximately 1 minute average magnetic fields from the GOES 5 and GOES 6 spacecraft for the period March 10-June 16 1986. Data are displayed in a VDH coordinate system based on a centered dipole with northern hemisphere geographic coordinates of the pole at 78.80° latitude and 289.24° longitude. The magnetic field components are BH parallel to the dipole axis and positive northward, BV perpendicular to BH and in the plane of BH and the radius vector from the center of the earth to the spacecraft (positive outward) and BD perpendicular to the HV plane and positive eastward. The top trace BT indicates the total field magnitude and the bottom trace ELEV represents the latitude angle of the field in the VDH system (a 0° field is in the equatorial plane, a 90° field is northward). Magnetic local times are shown along the upper horizontal axis and universal times and dipole tilt angles (the geomagnetic latitude of the sun) along the bottom horizontal axis. The lighter trace represents GOES 5 and the darker trace GOES 6. Data have not been edited to remove noise points or time-dependent spacecraft fields. Also, the corrections to the spin axis component of the field determined by Fairfield and Zanetti [JGR p 3565, 1989] have not been applied to this data.

During the PROMIS interval, the GOES spacecraft were separated by about 2 hours local time and located within a few degrees of 75° West Geographic Longitude (GOES 5) and 108° West Geographic Longitude (GOES 6). These locations relative to three Los Alamos geosynchronous spacecraft (see Volume 6 of this series) are shown in Figure 1. The positions are shown for 0600 Universal Time, an hour that provides optimal coverage of the midnight region. Tic marks inside the synchronous orbit denote the geographic longitude of 11 midlatitude ground magnetic observatories whose digital magnetic data are available in the UCLA data base. The stations range from Kanoya, Kakioka and Memambetsu in the west through Honolulu, Victoria, Newport, Tucson, Boulder, Ottawa, San Juan and Saint John's in the east. Geosynchronous spacecraft orbit essentially in the geographic equatorial plane and remain fixed with respect to the rotating field, but the geomagnetic latitude of the various spacecraft is different at the different longitudes. These dipole latitudes at the various geographic longitudes are shown in Figure 2 along with spacecraft positions appropriate for the PROMIS period.

The data were processed by the NOAA Space Environmental Laboratory and obtained from the NOAA National Geophysical Data Center. The authors thank the staff of the AMPTE/CCE Science Data Center at Johns Hopkins University Applied Physics Laboratory for help in producing these plots.

GEOSYNCHRONOUS SPACECRAFT POSITIONS

PROMIS PERIOD - 0600 UT

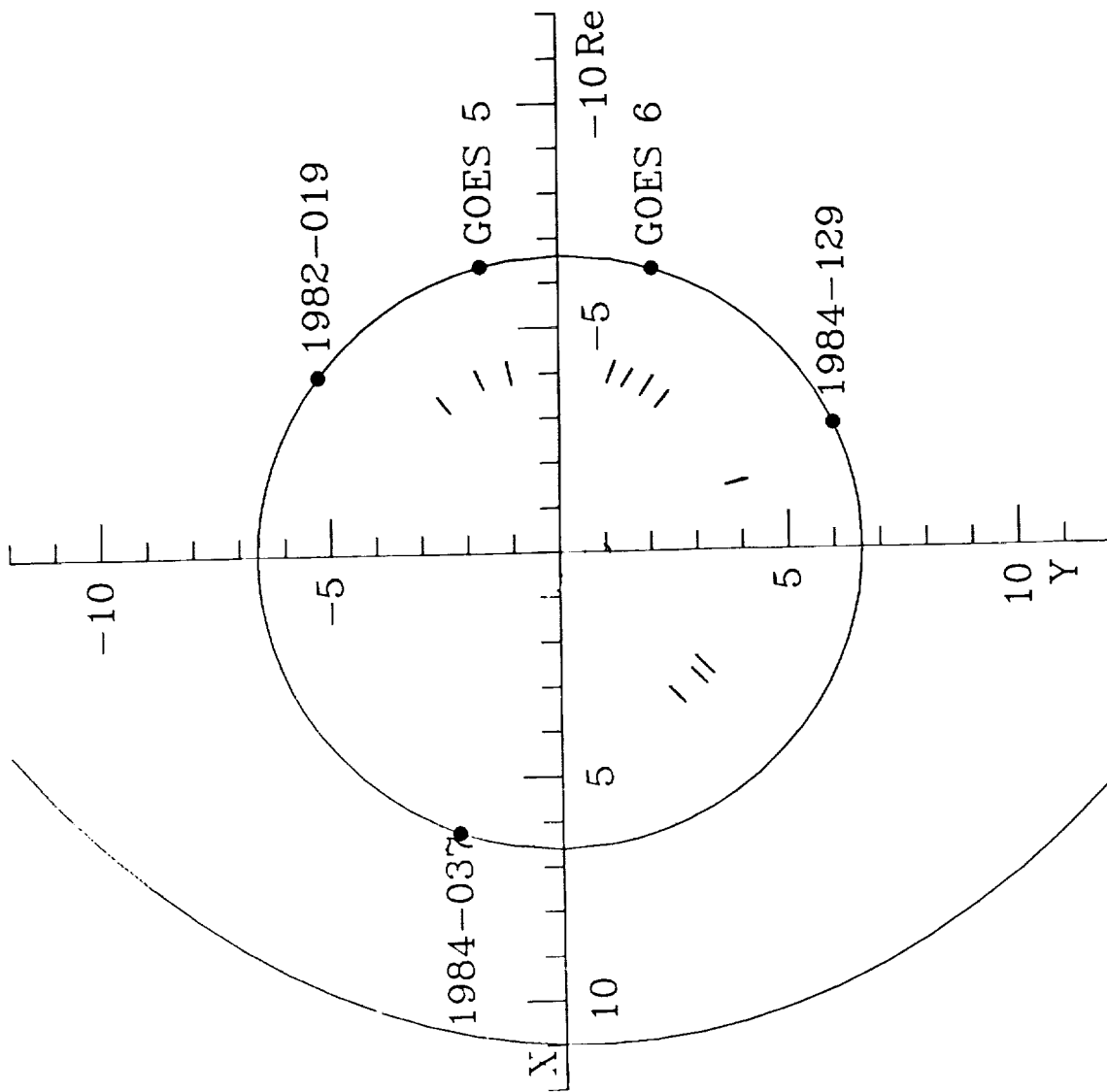


Figure 1

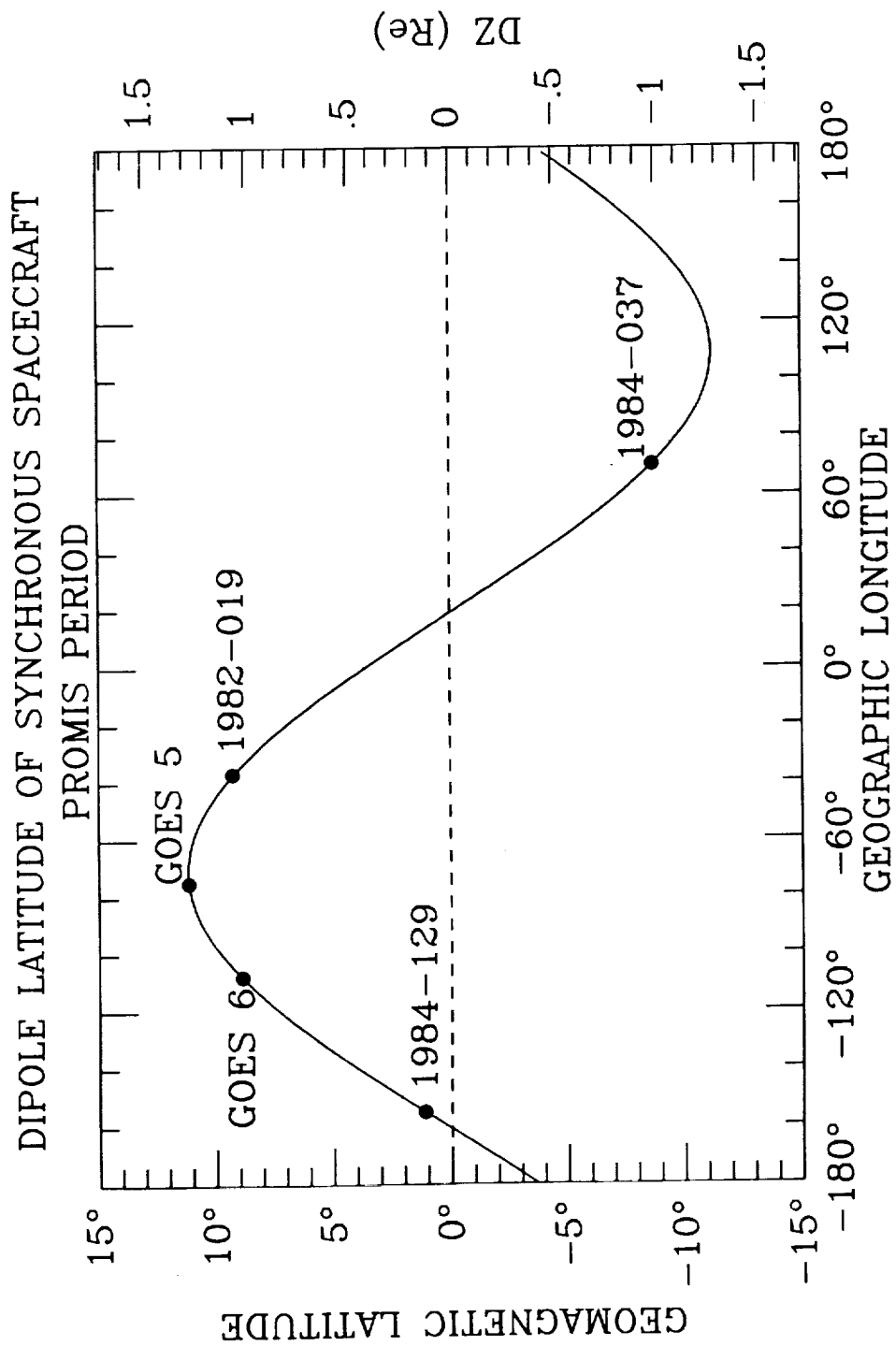
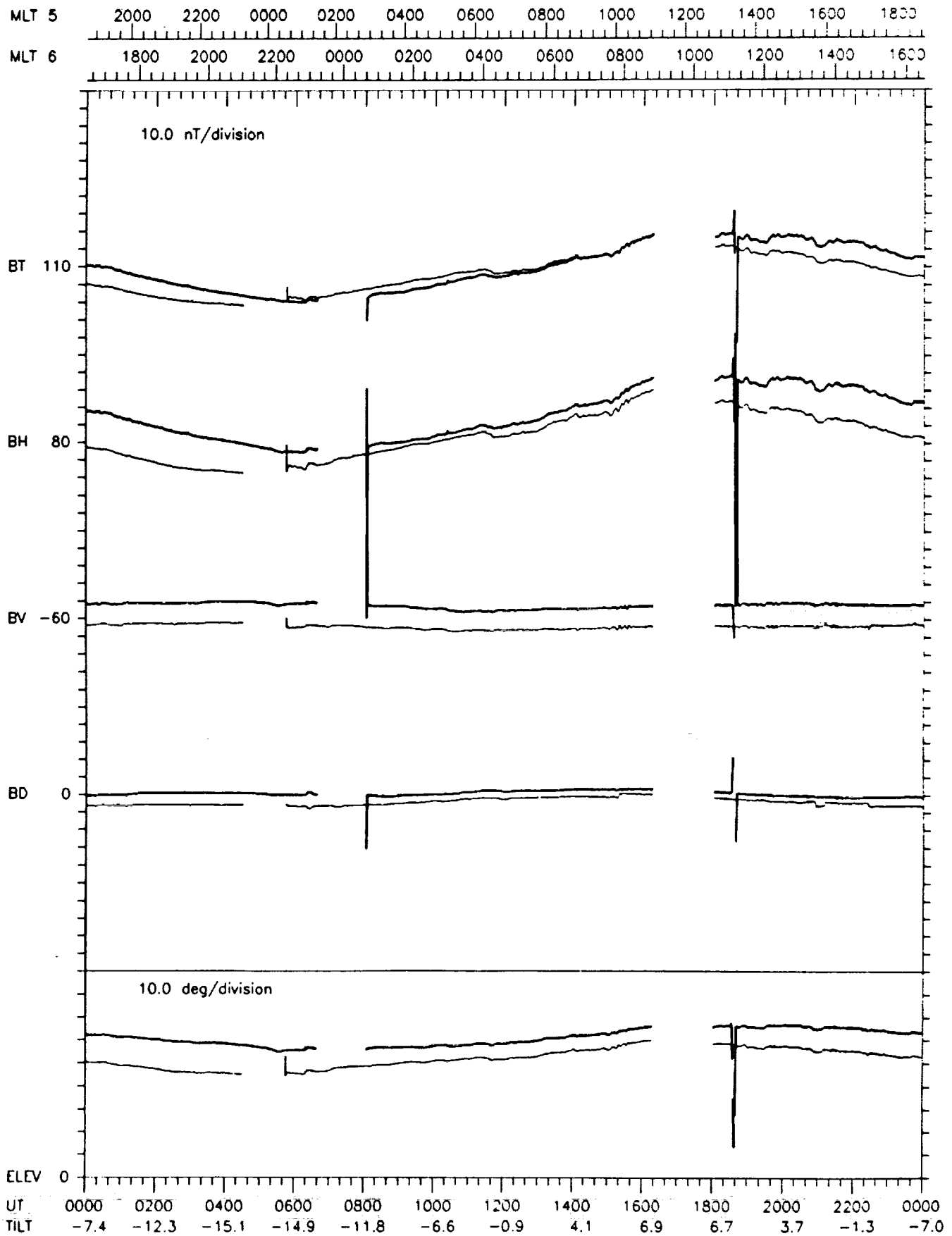
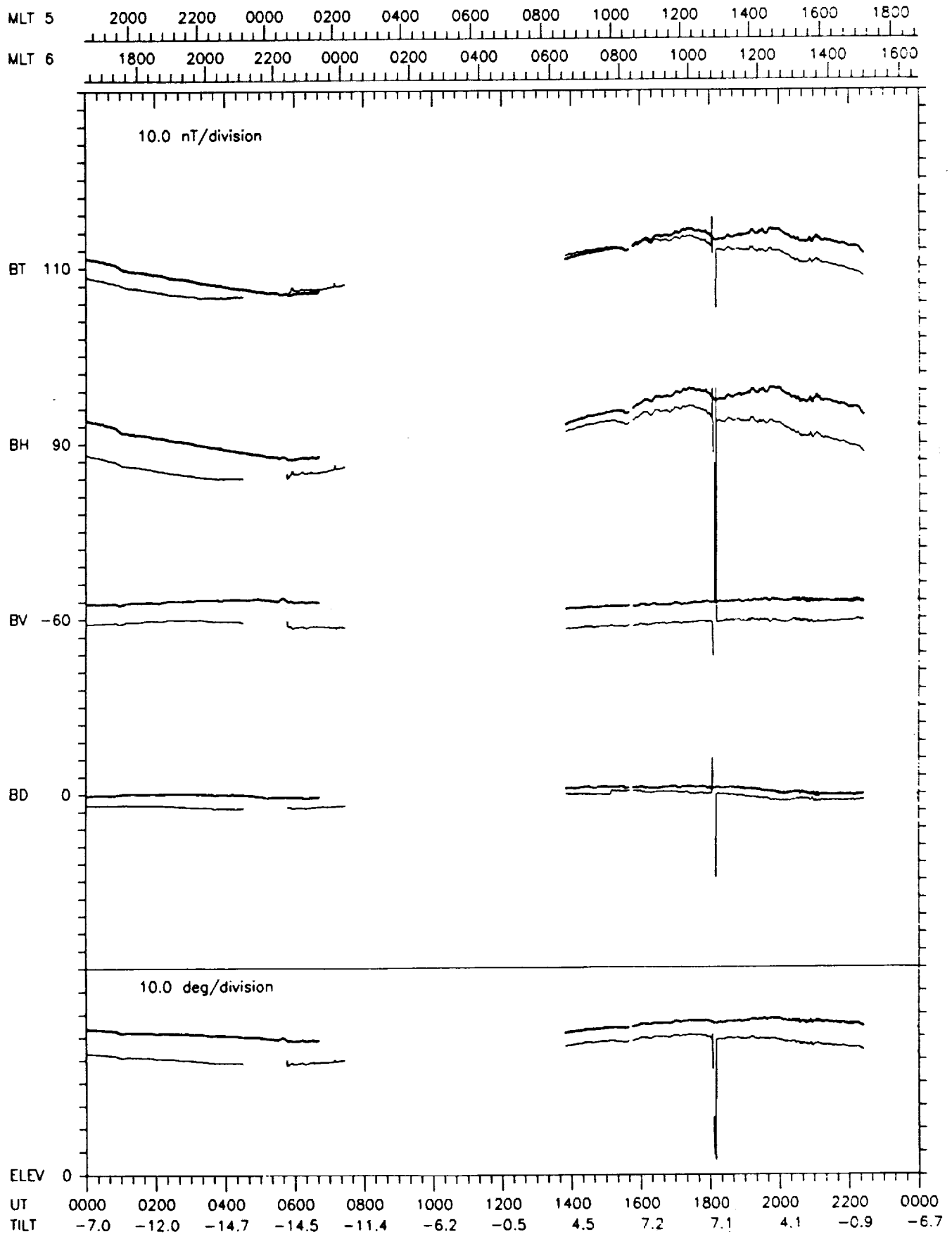


Figure 2

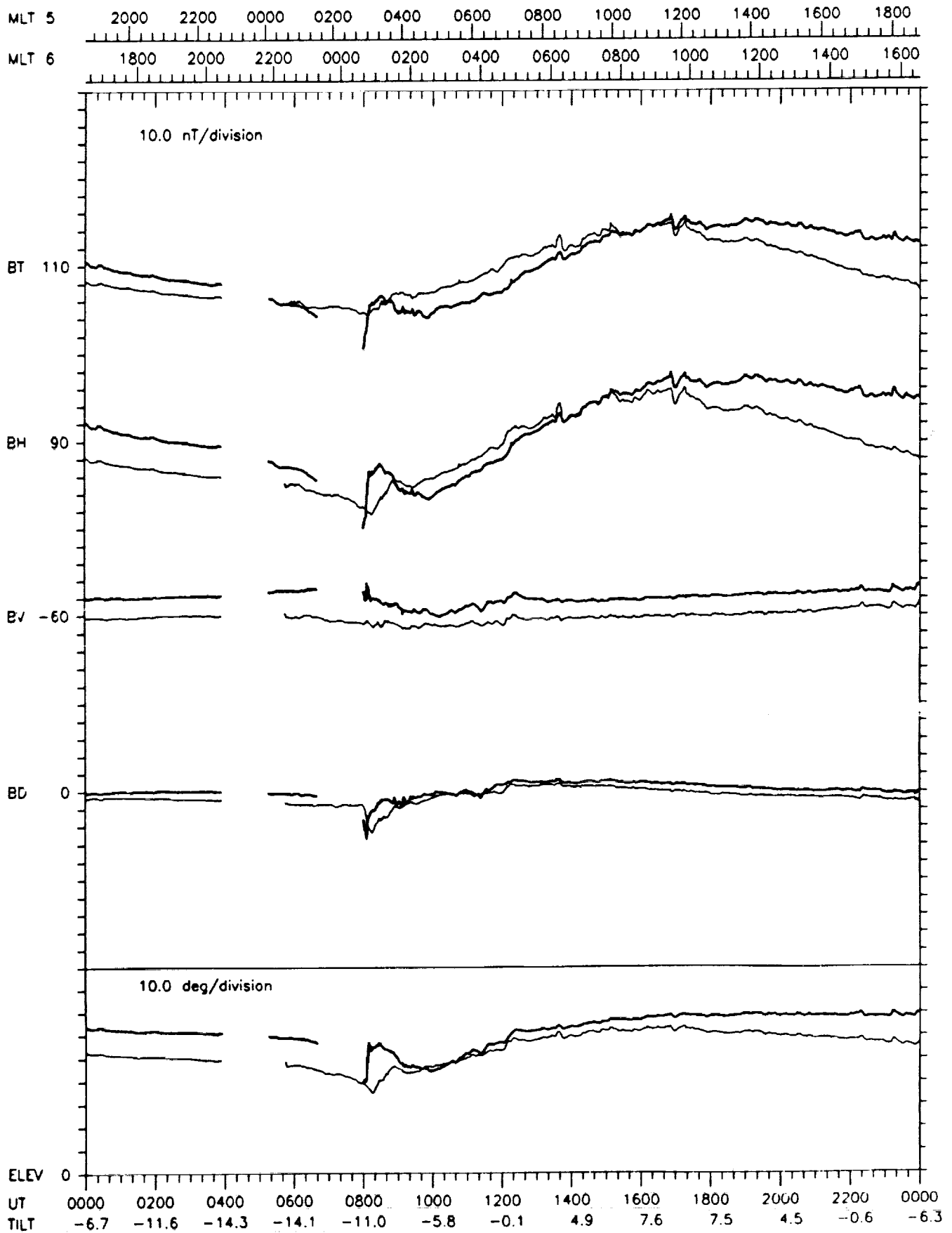
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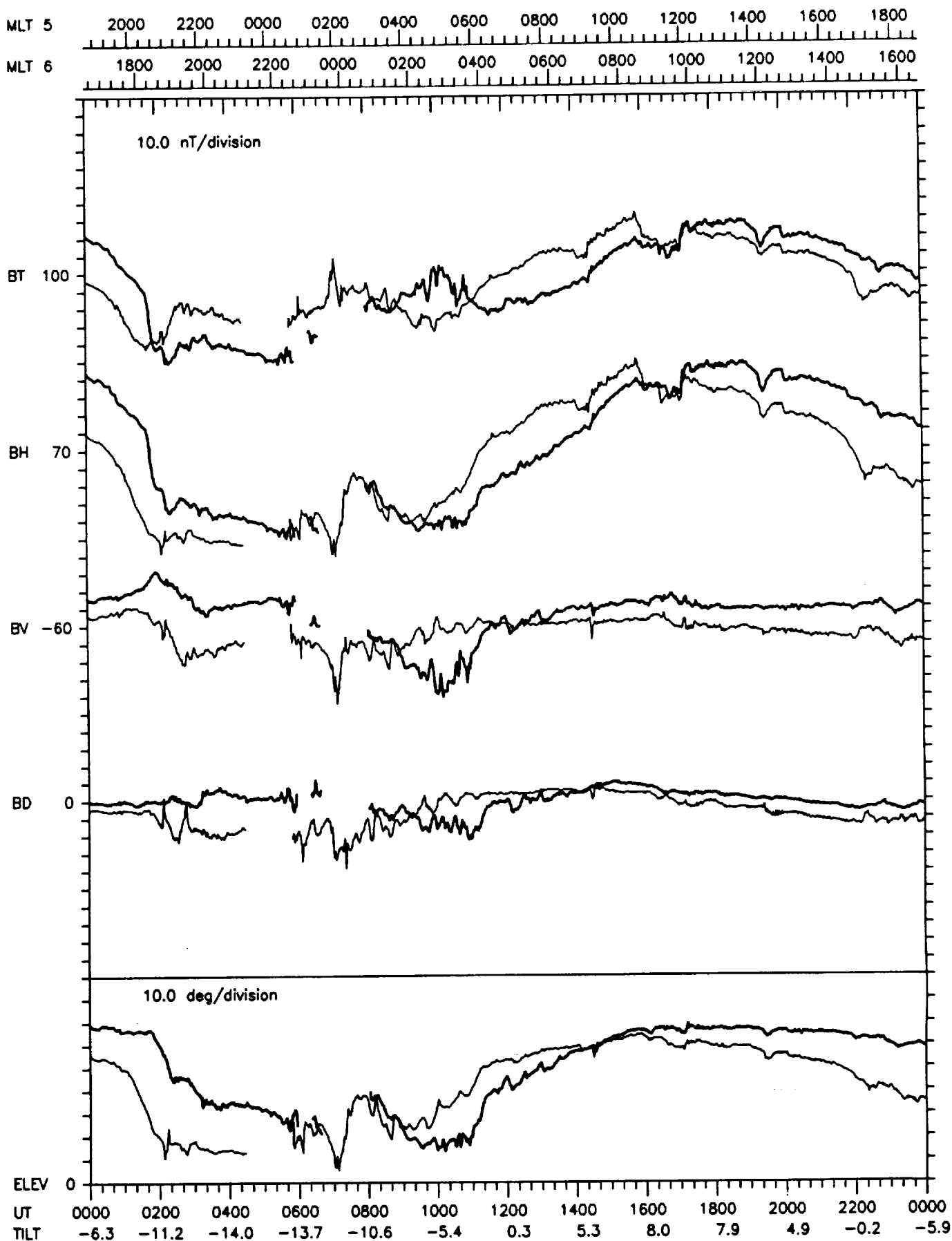
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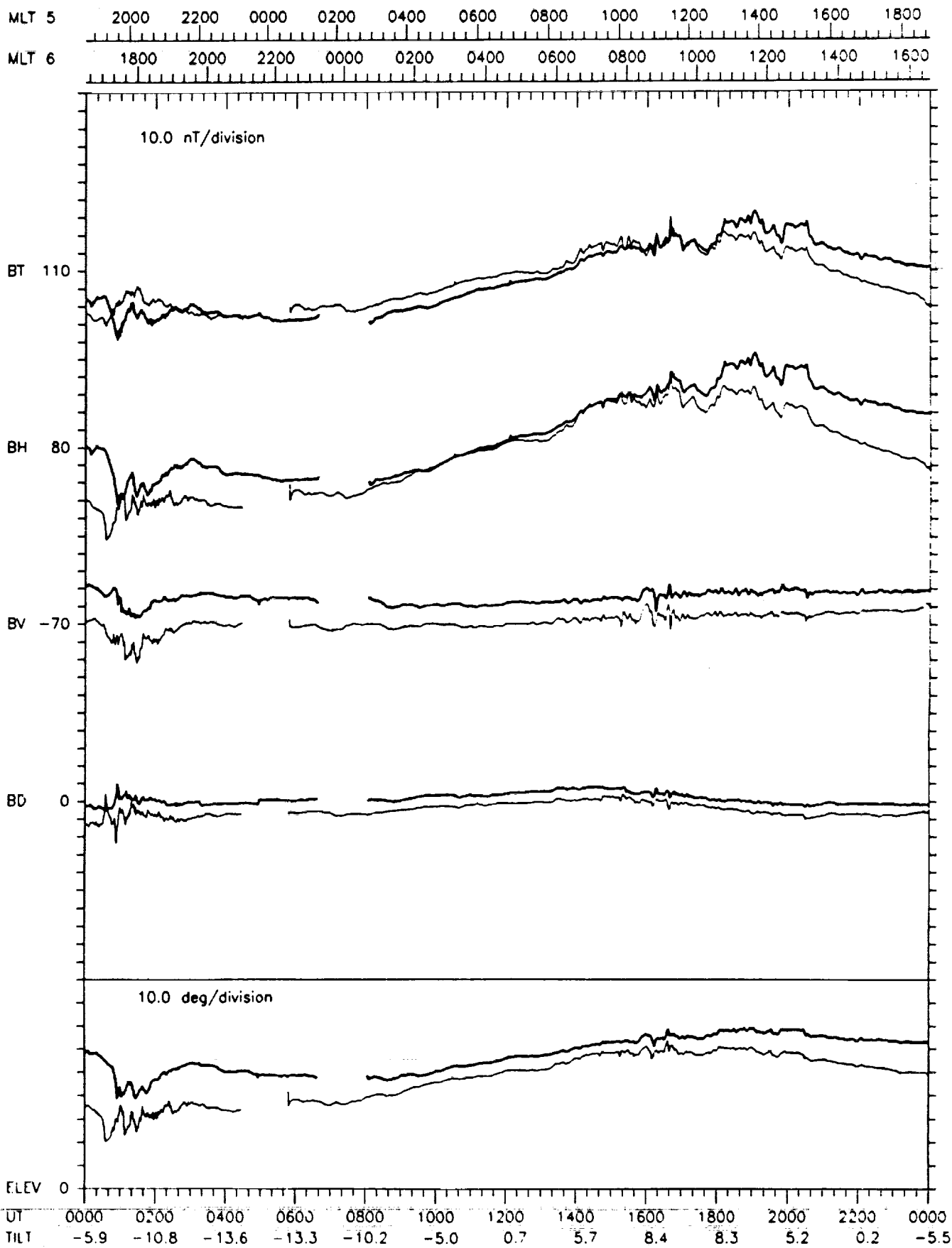
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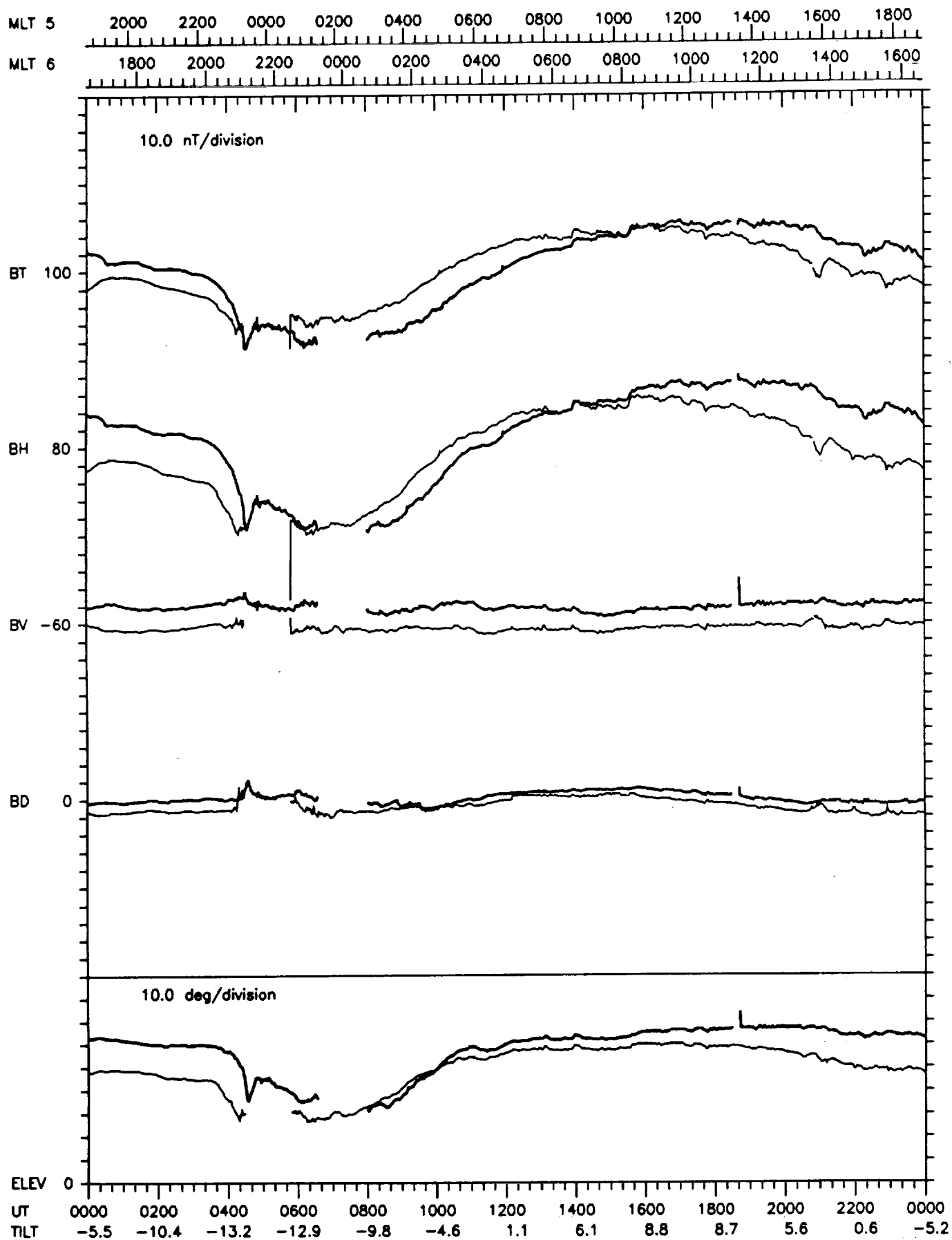
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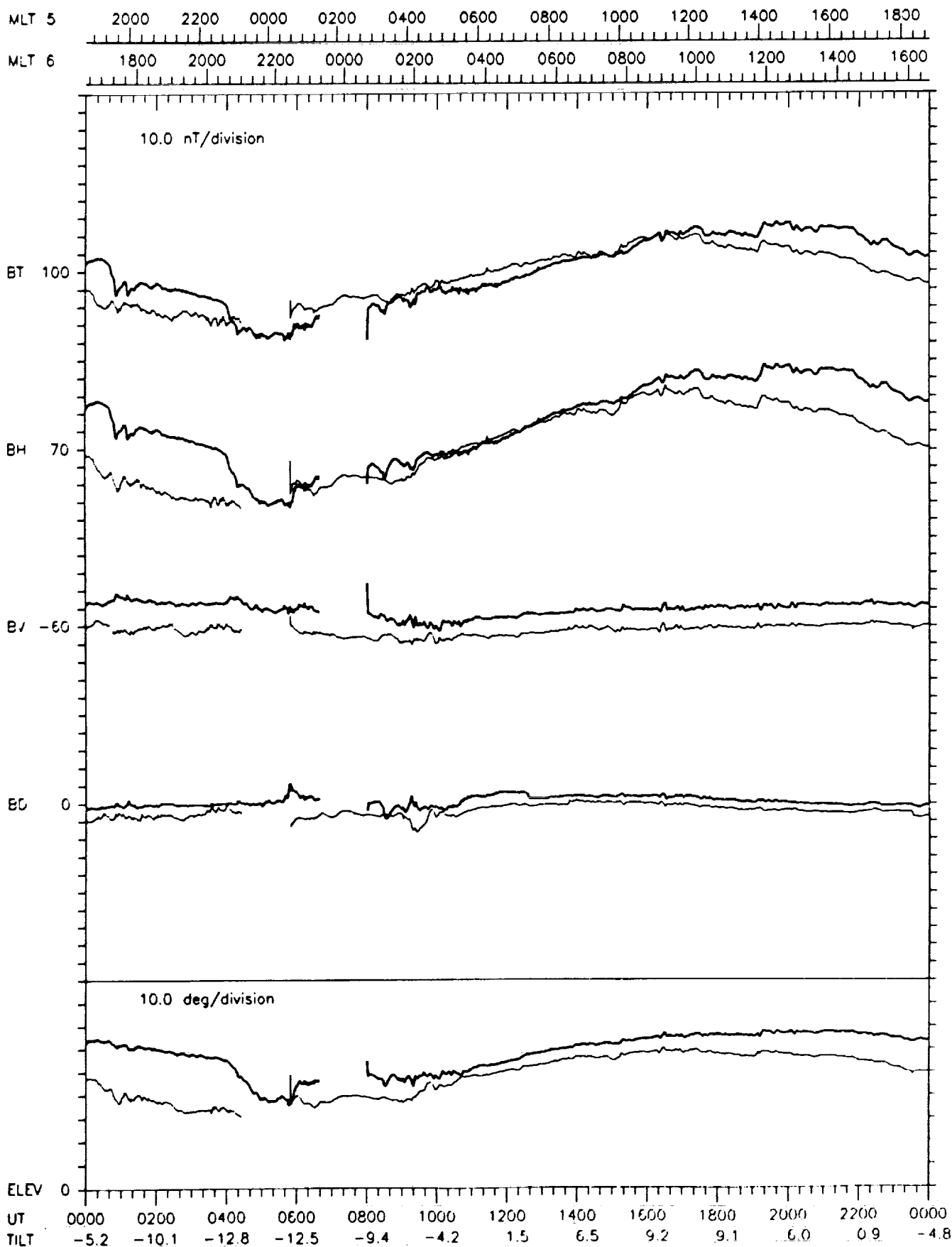
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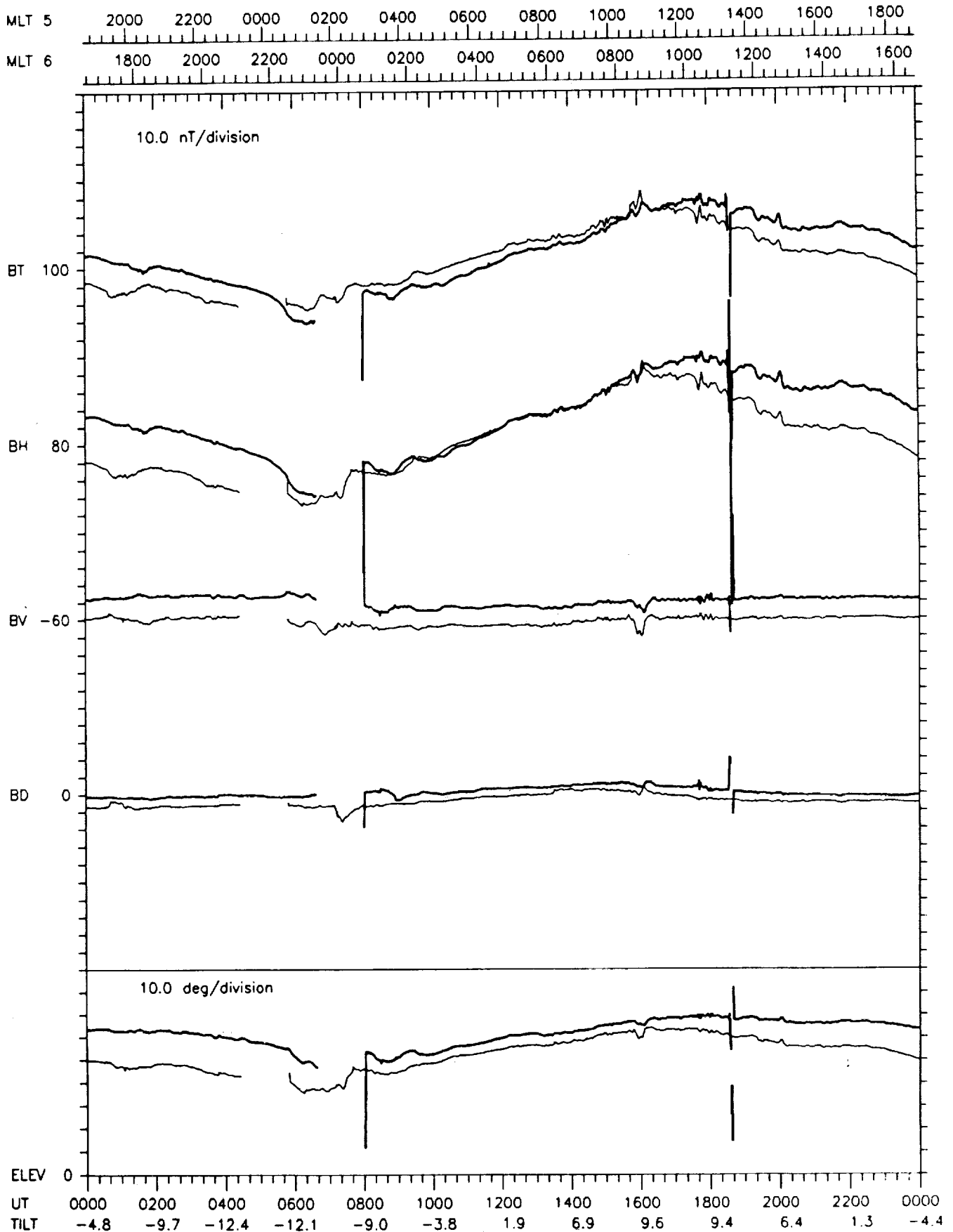
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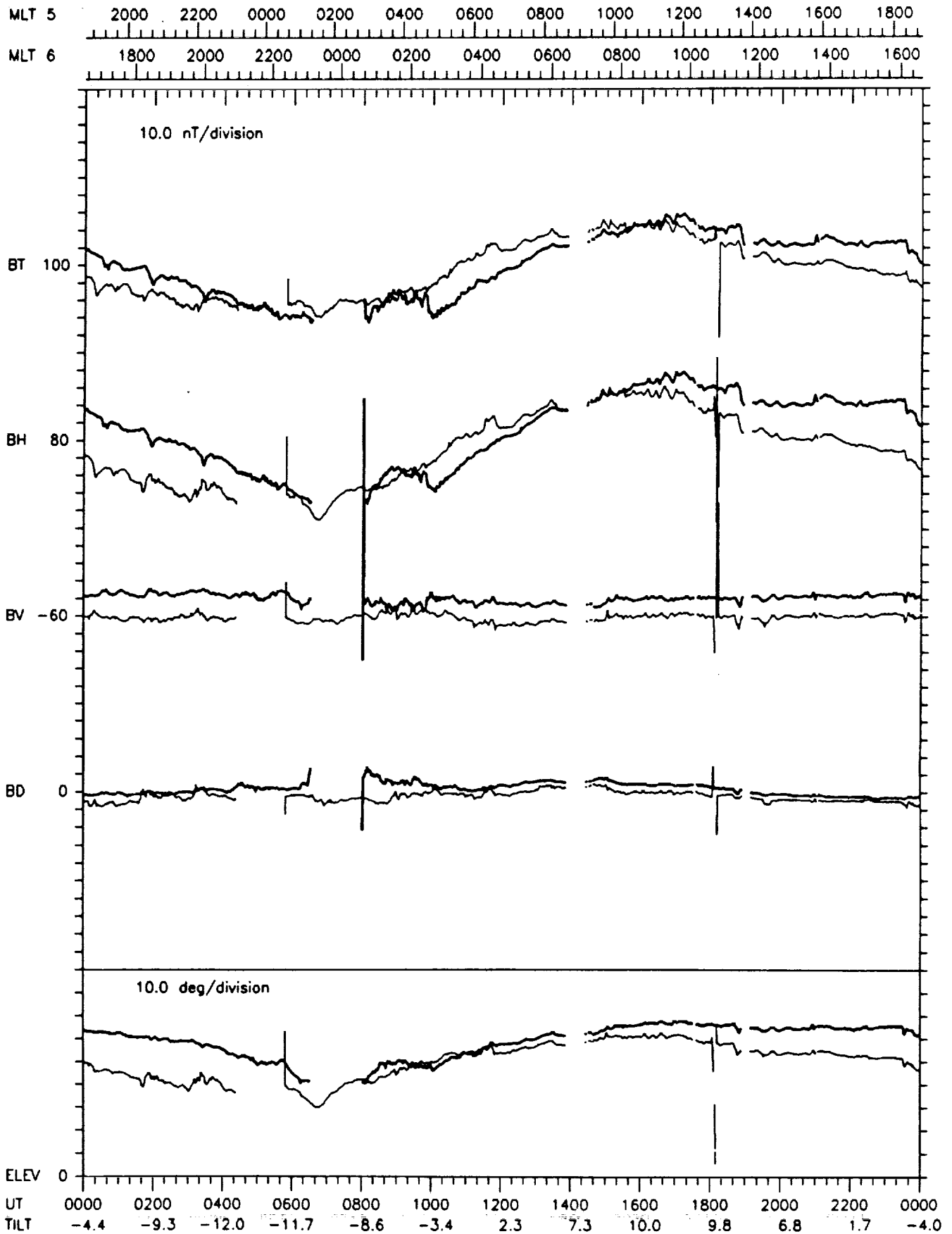
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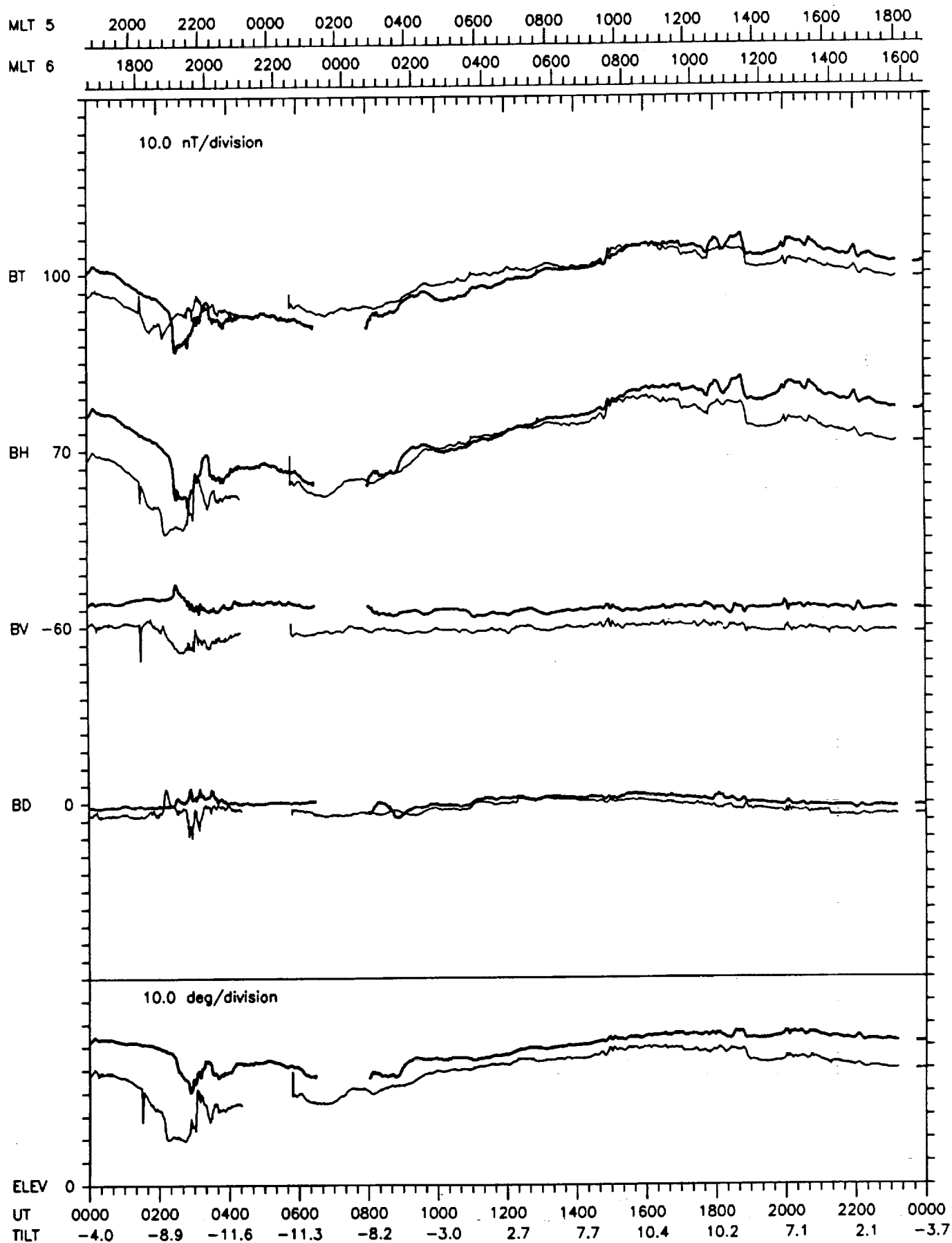
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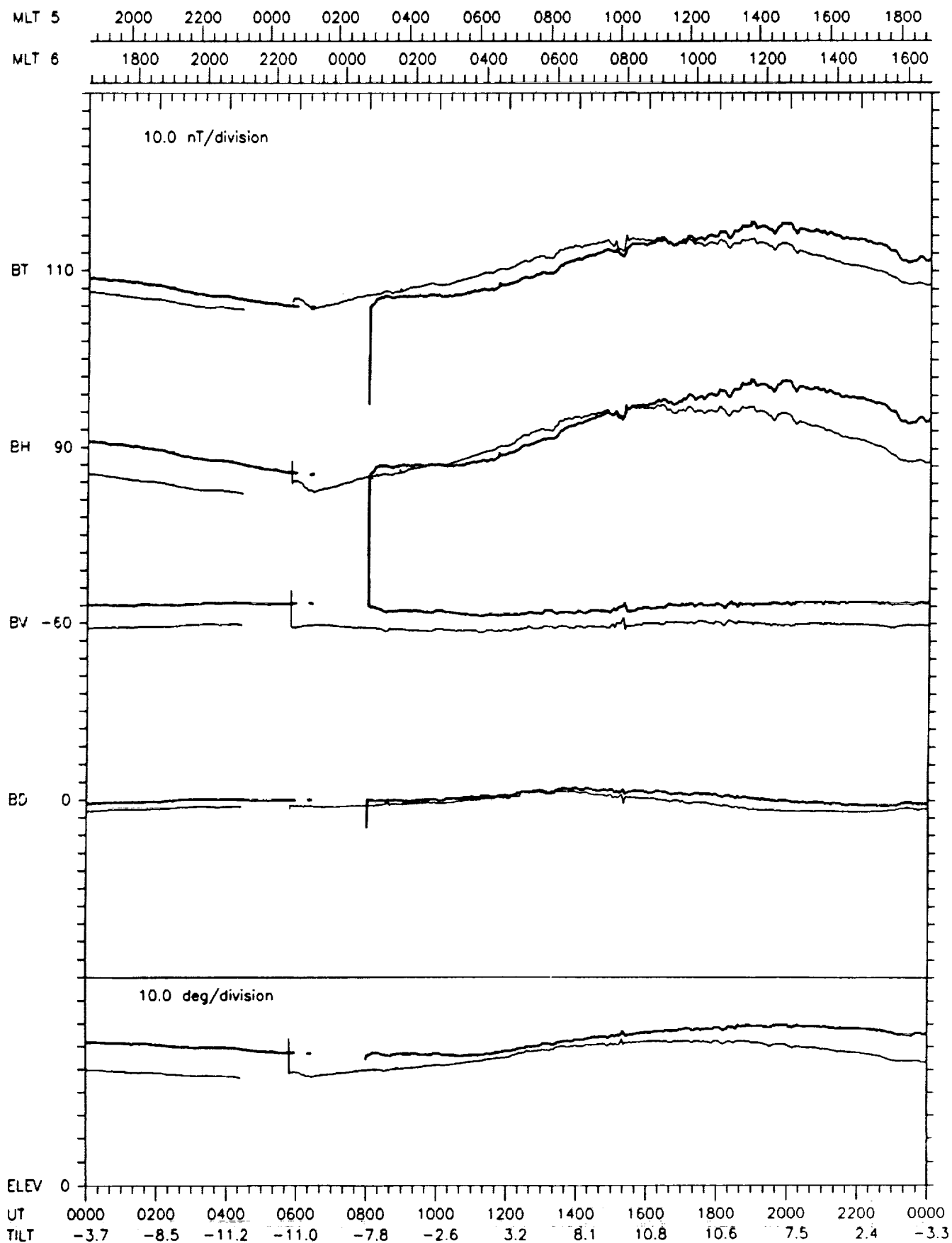
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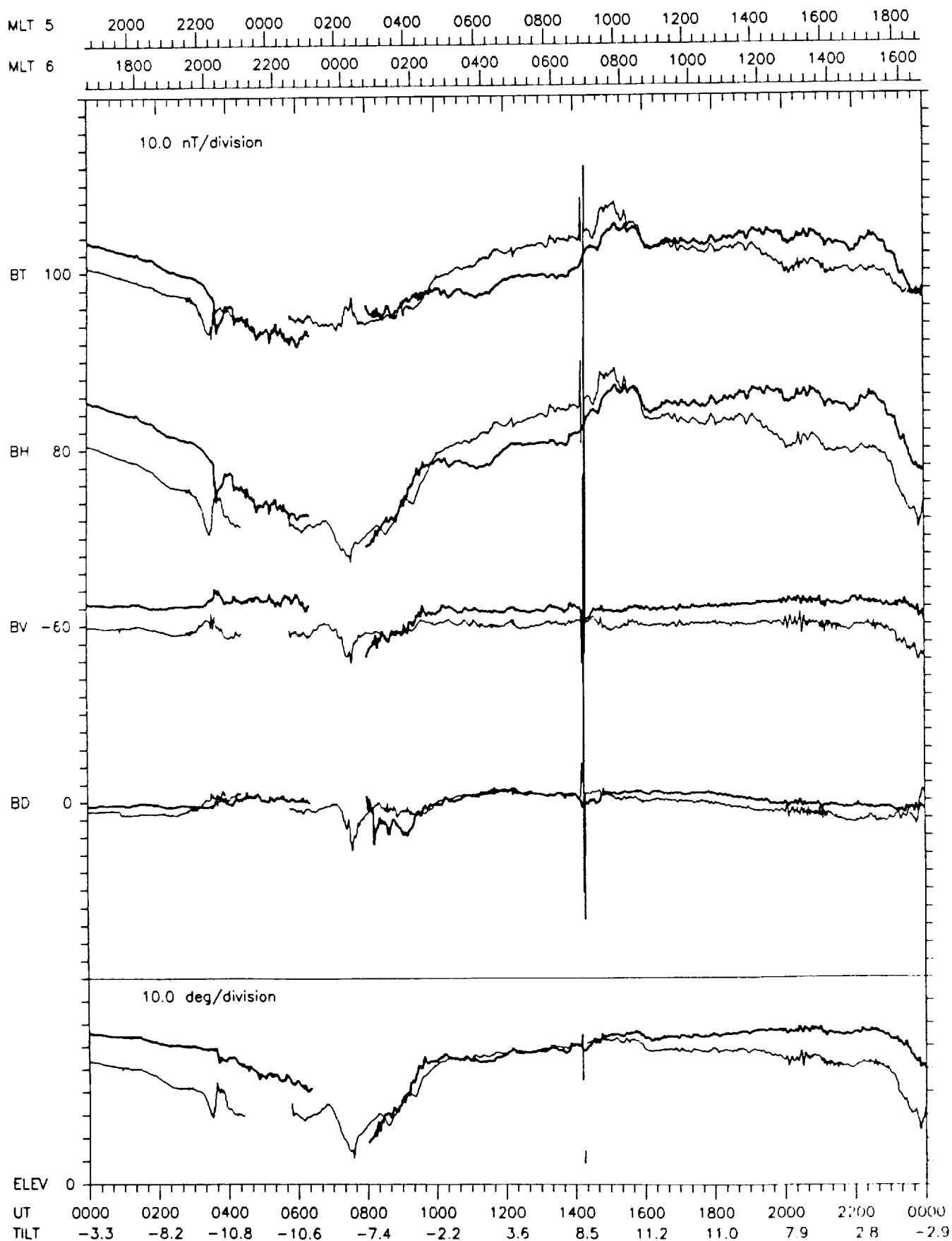
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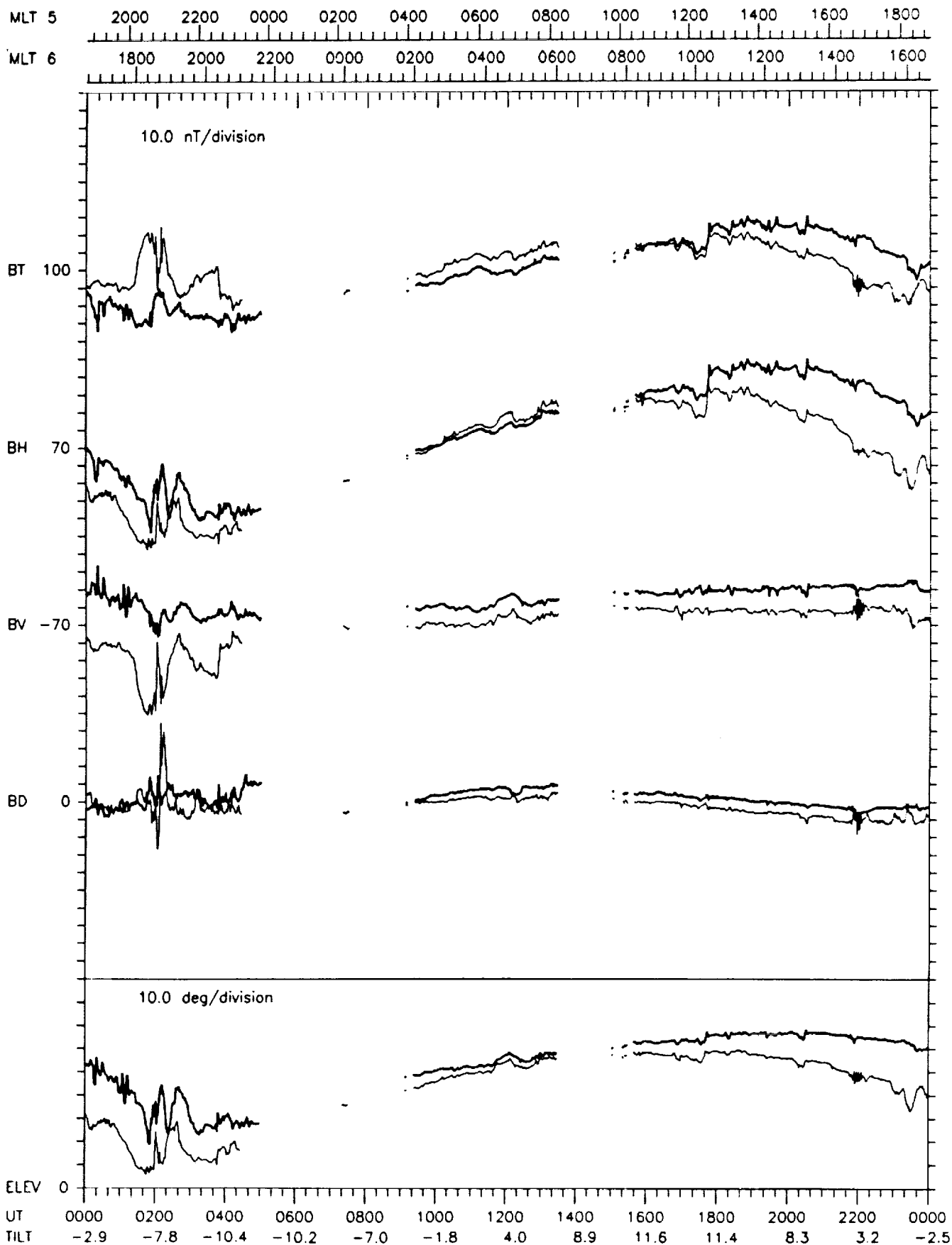
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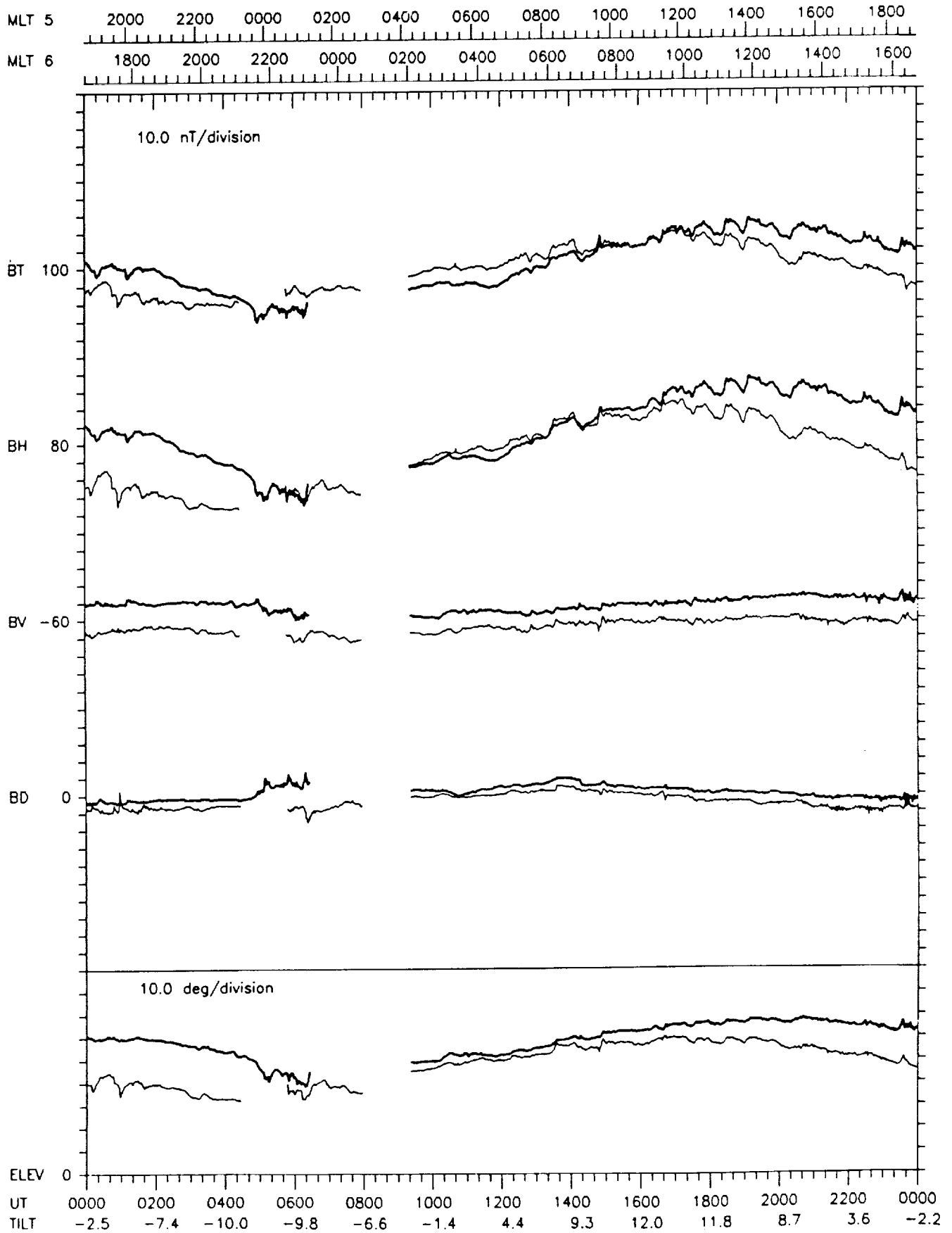
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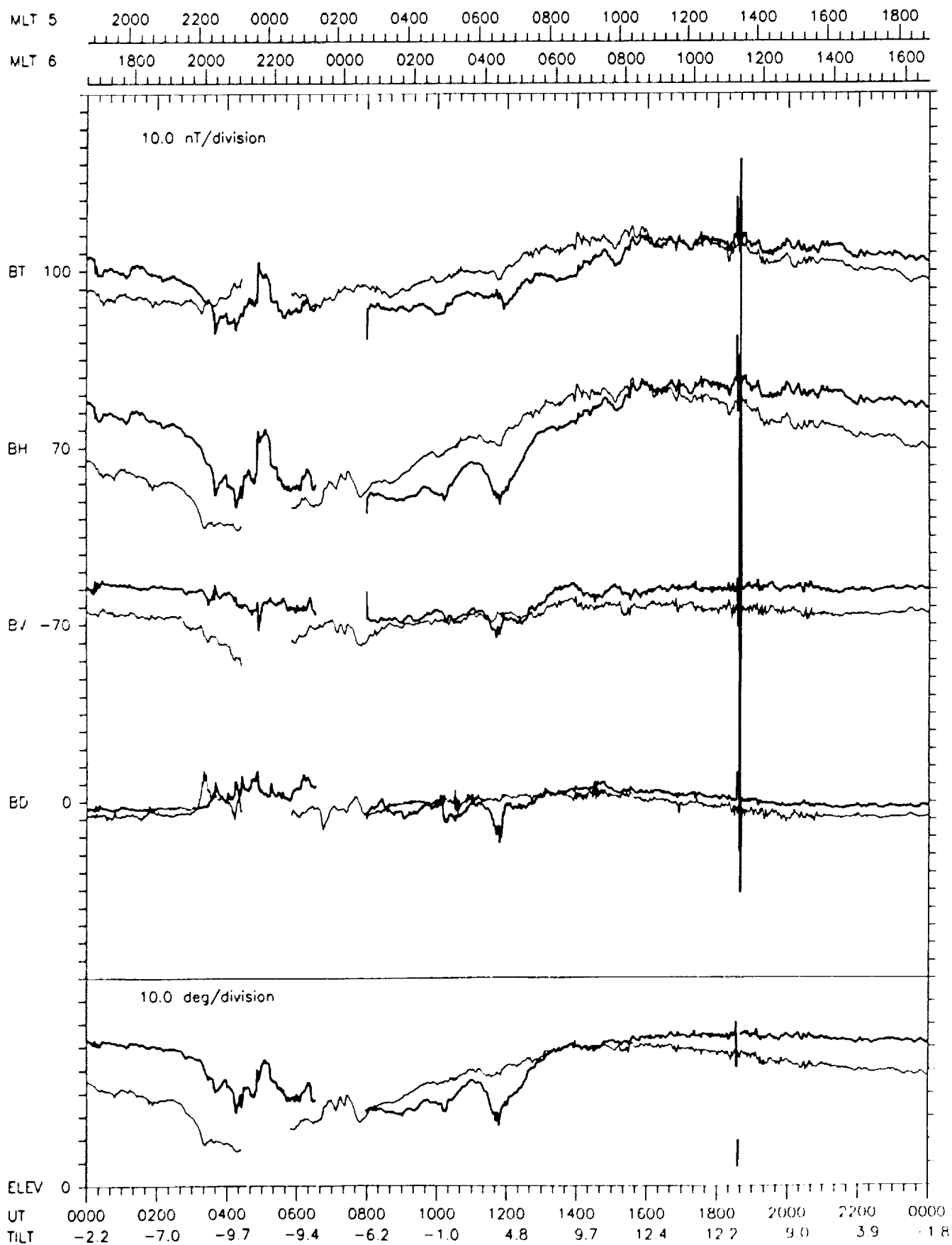
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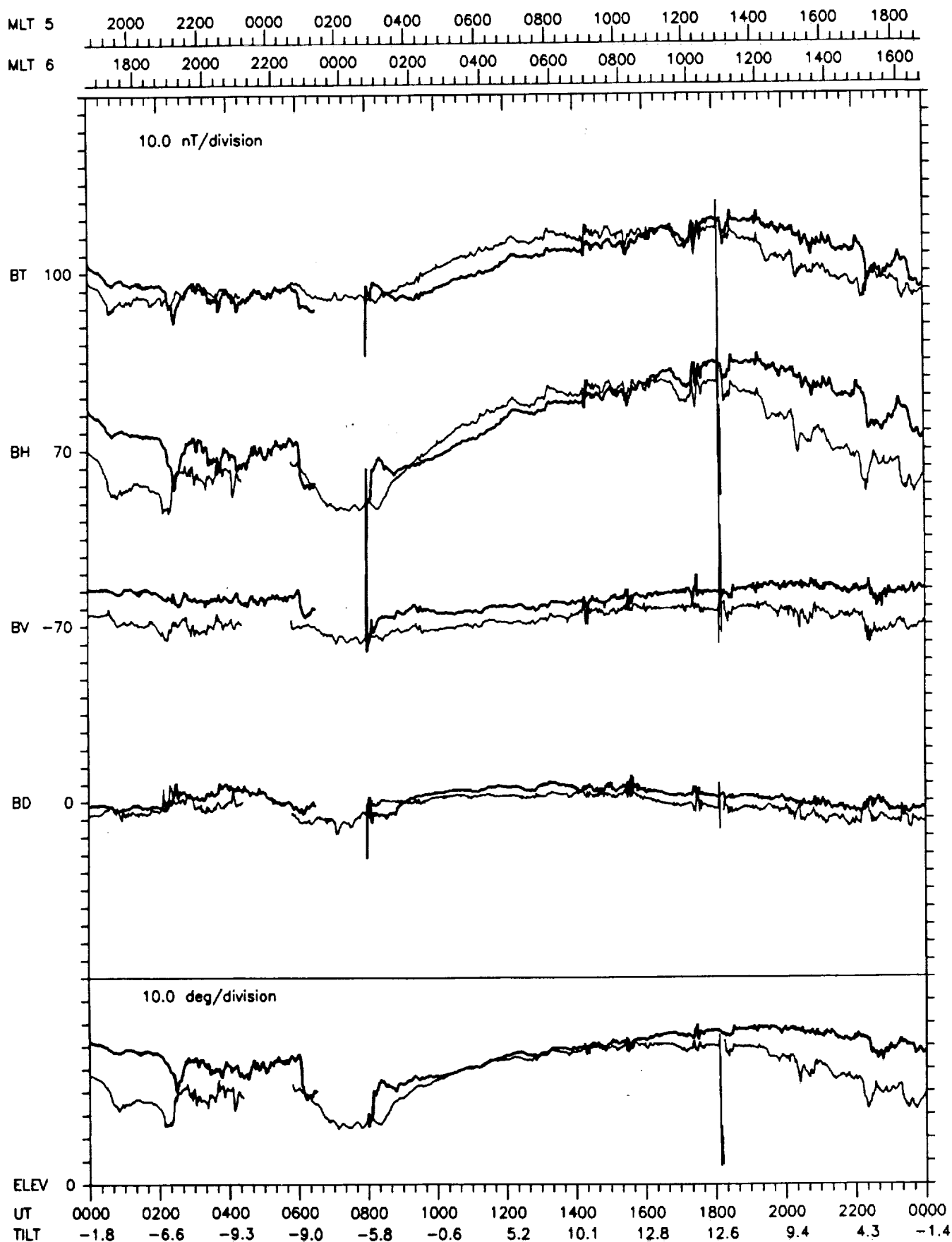
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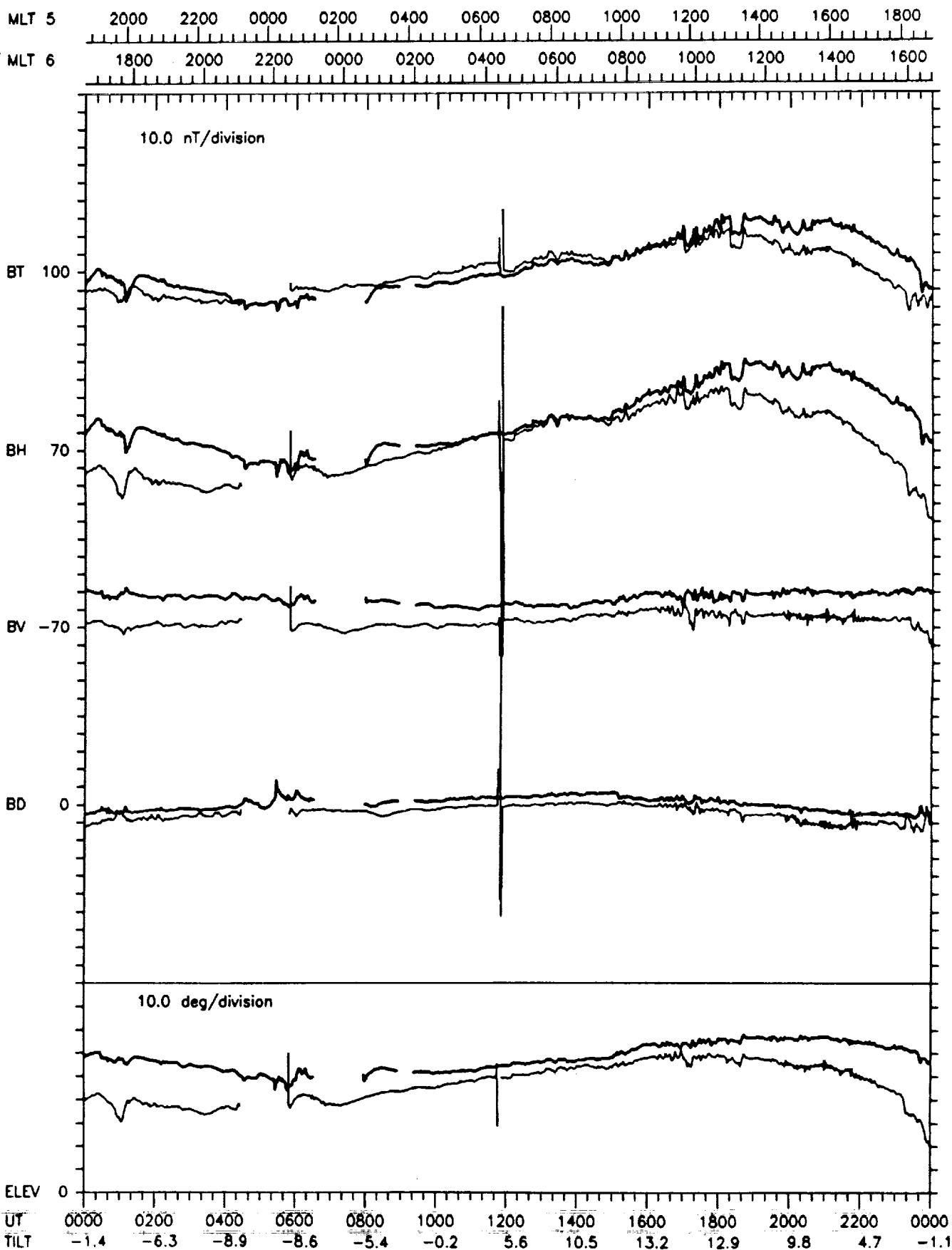
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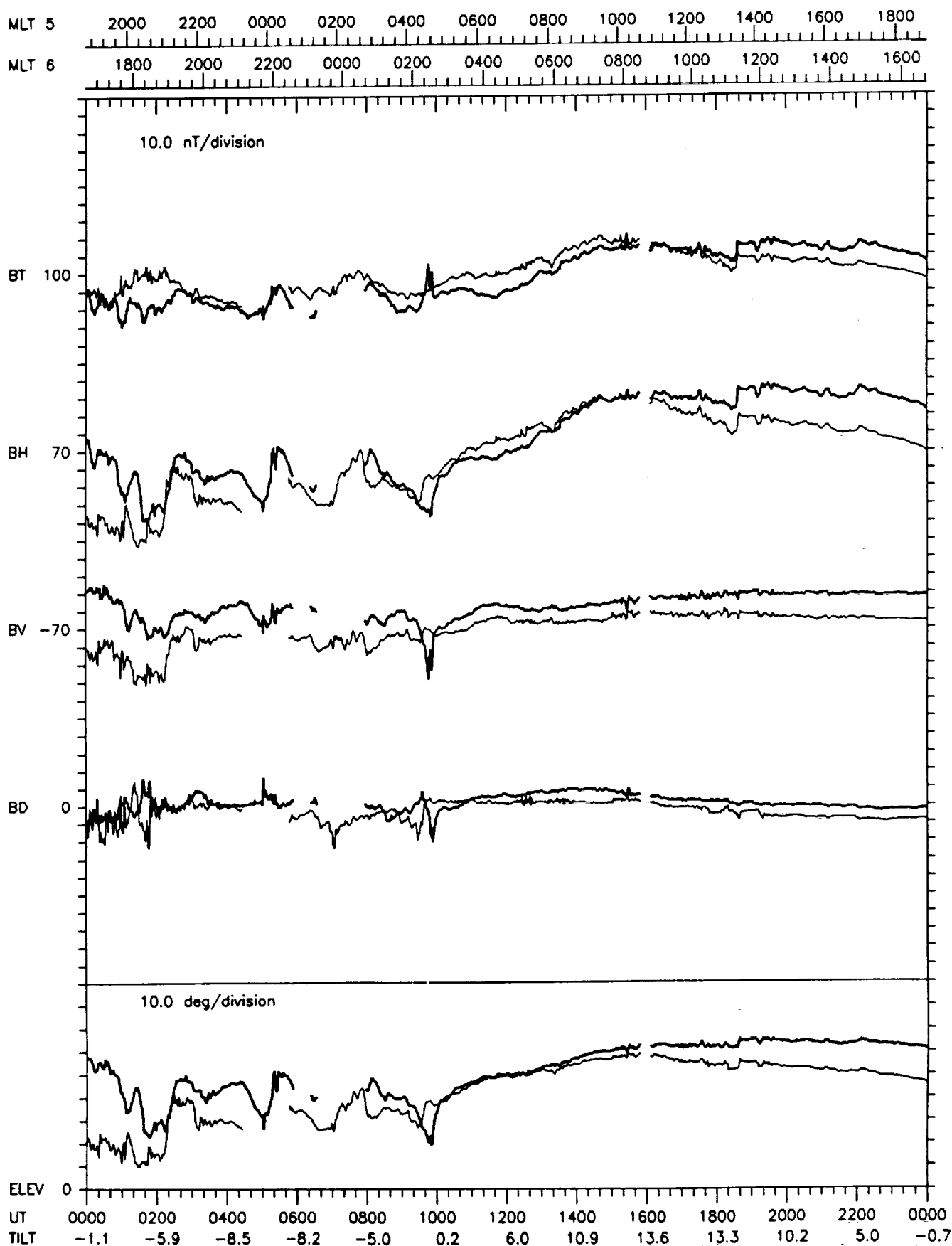
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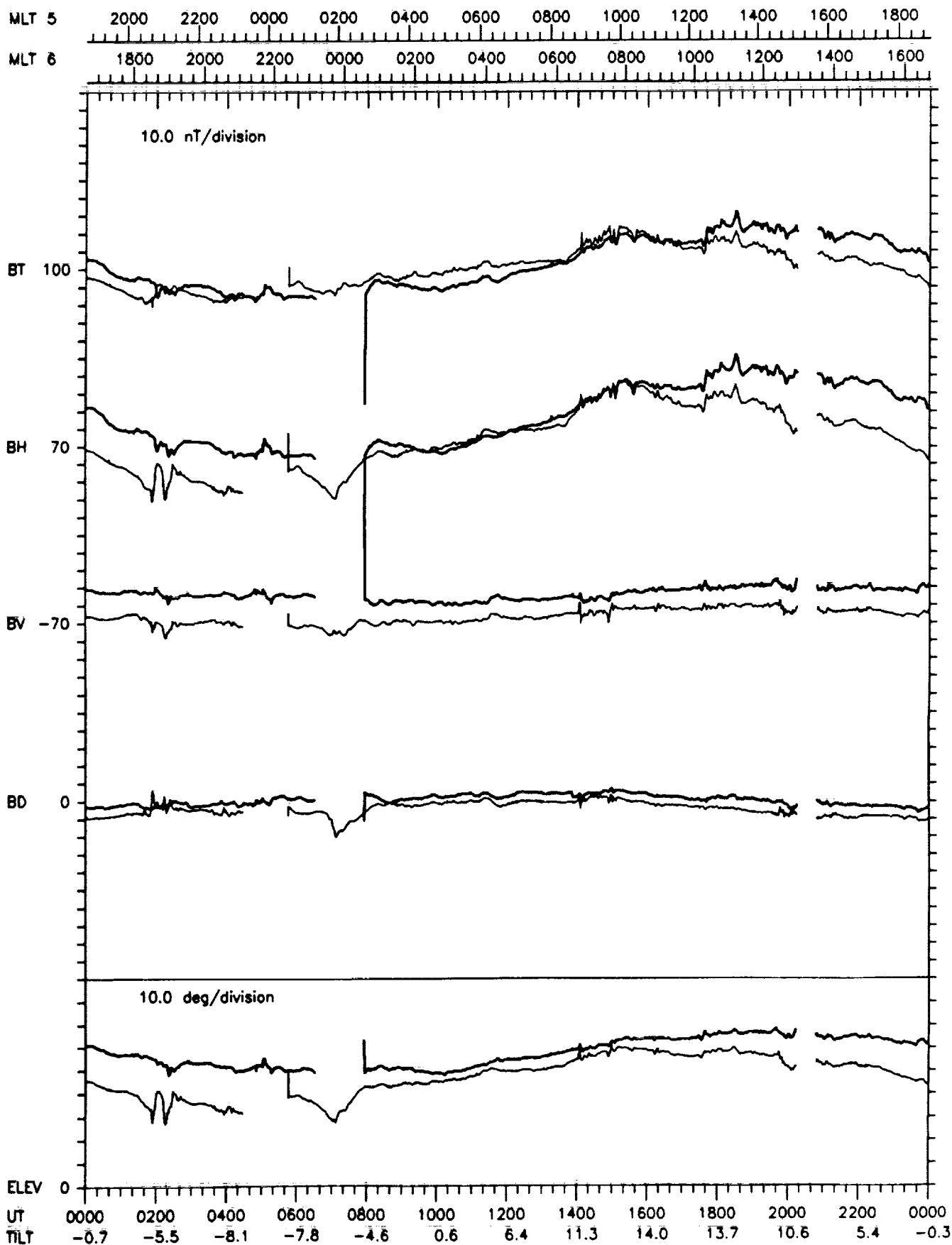
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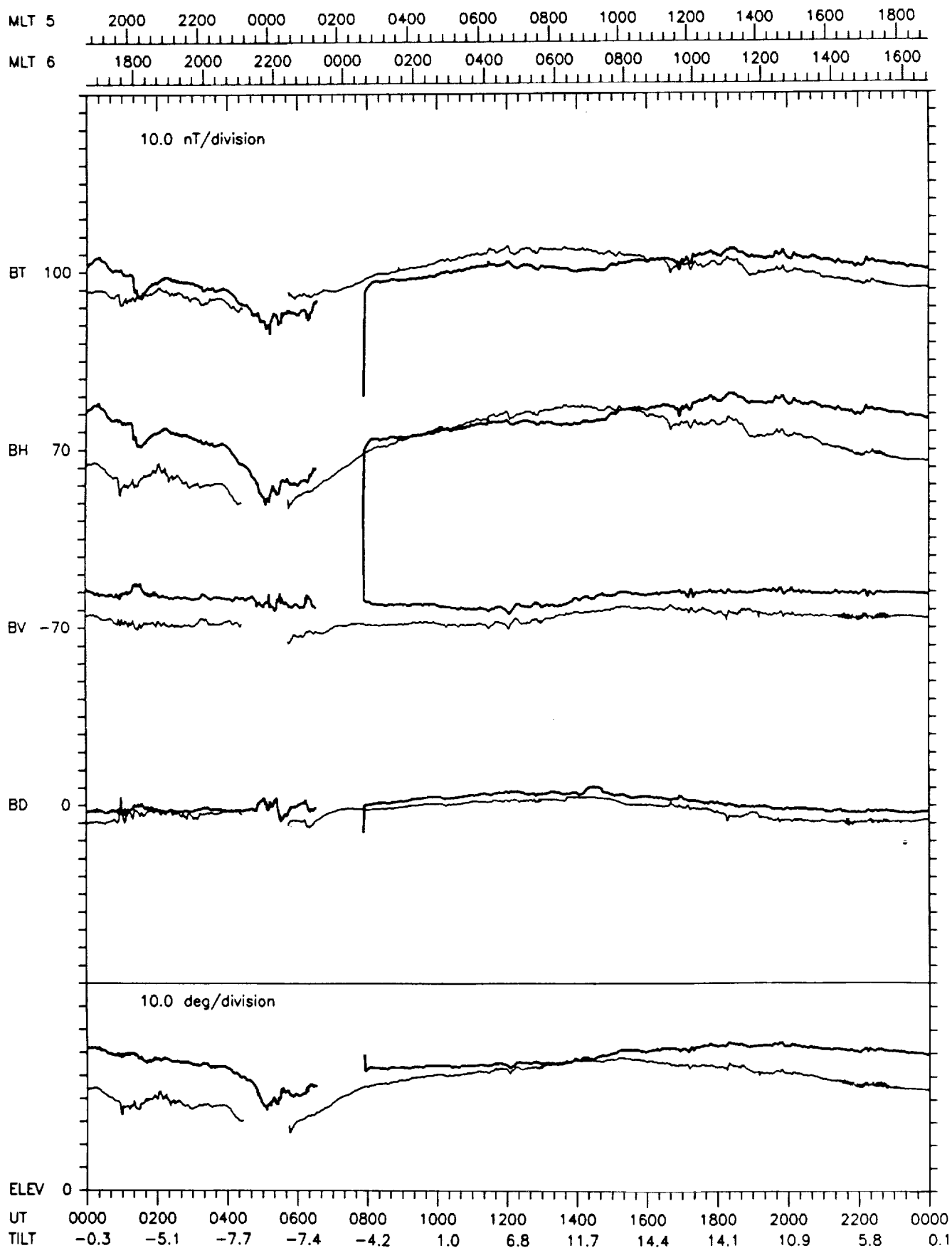
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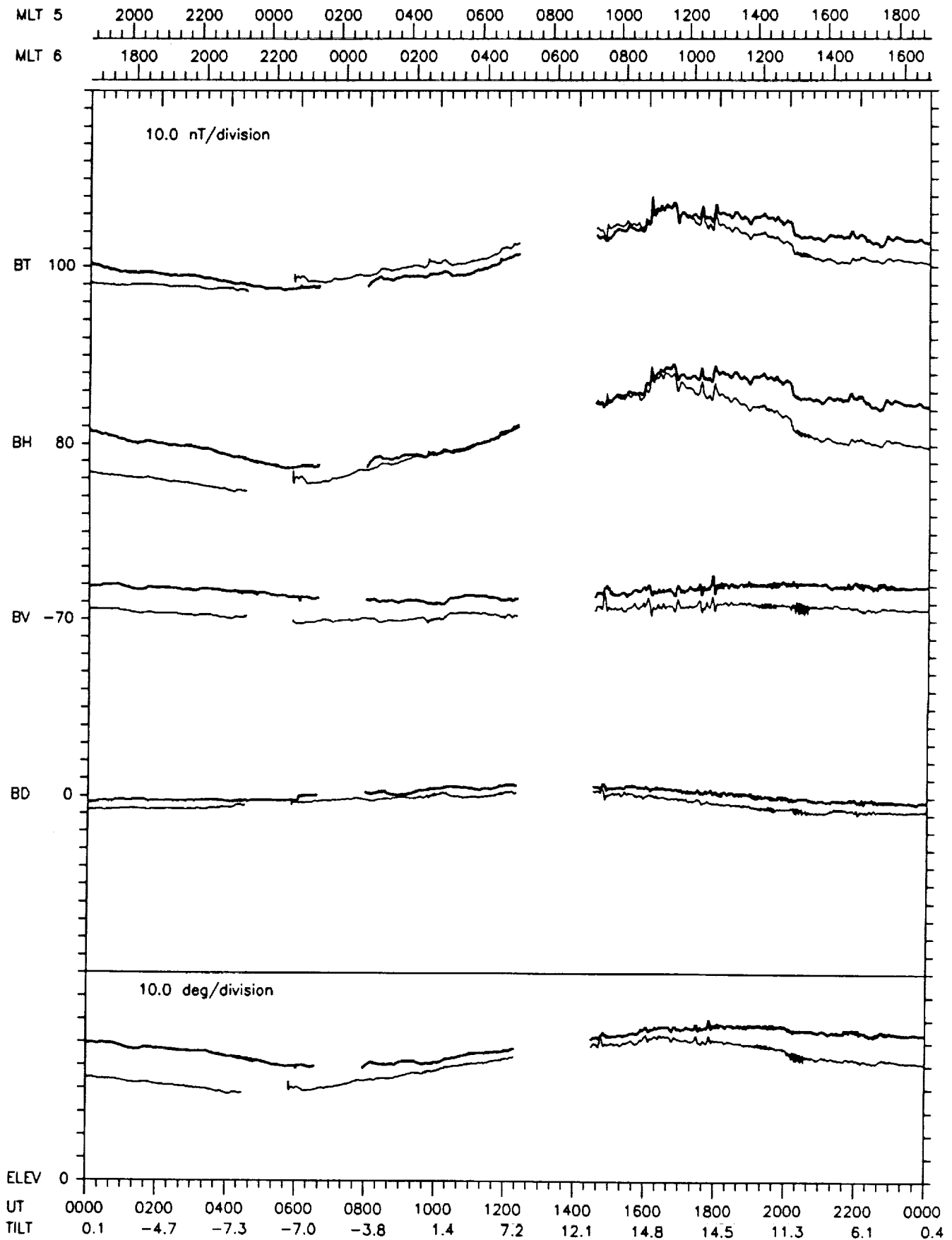
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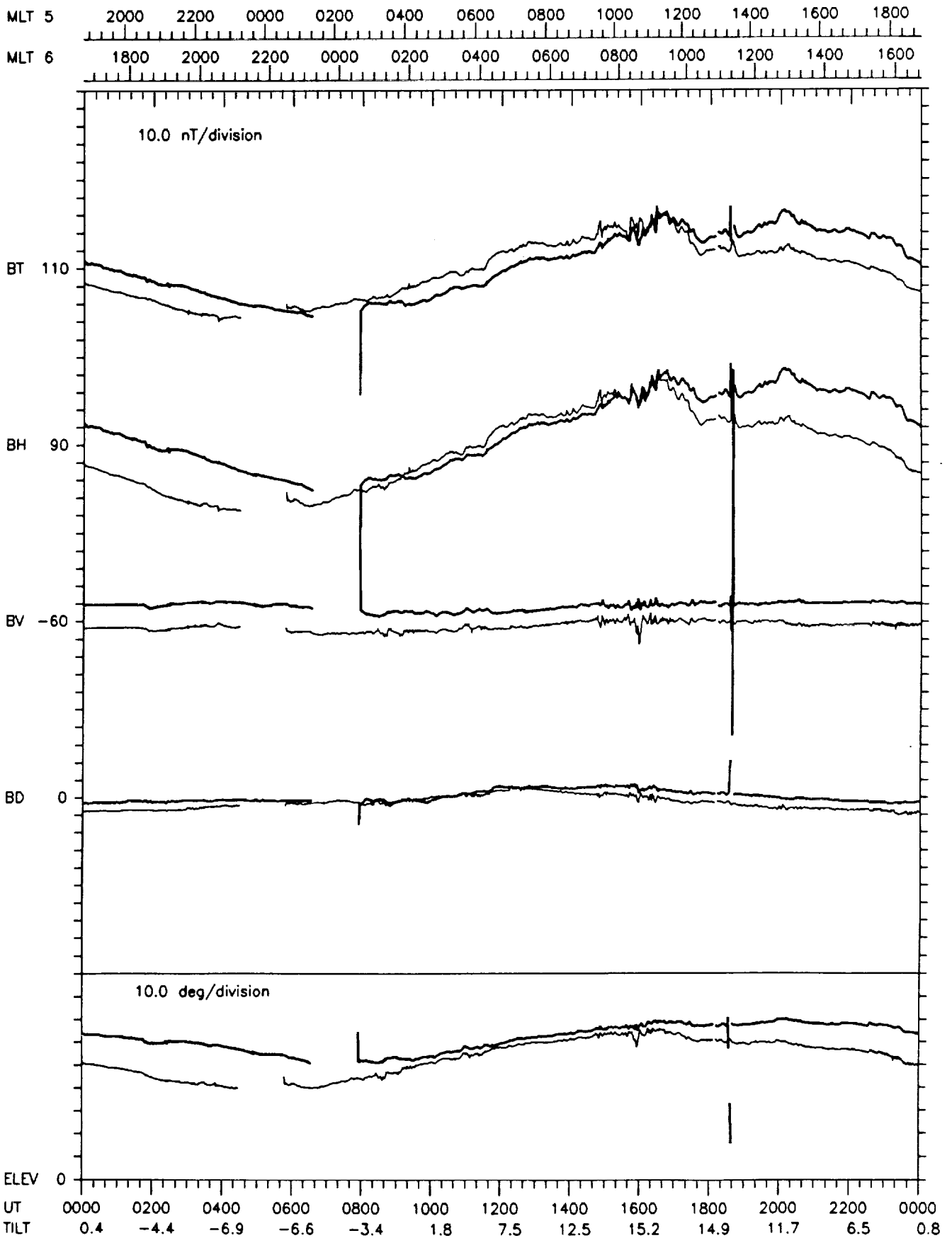
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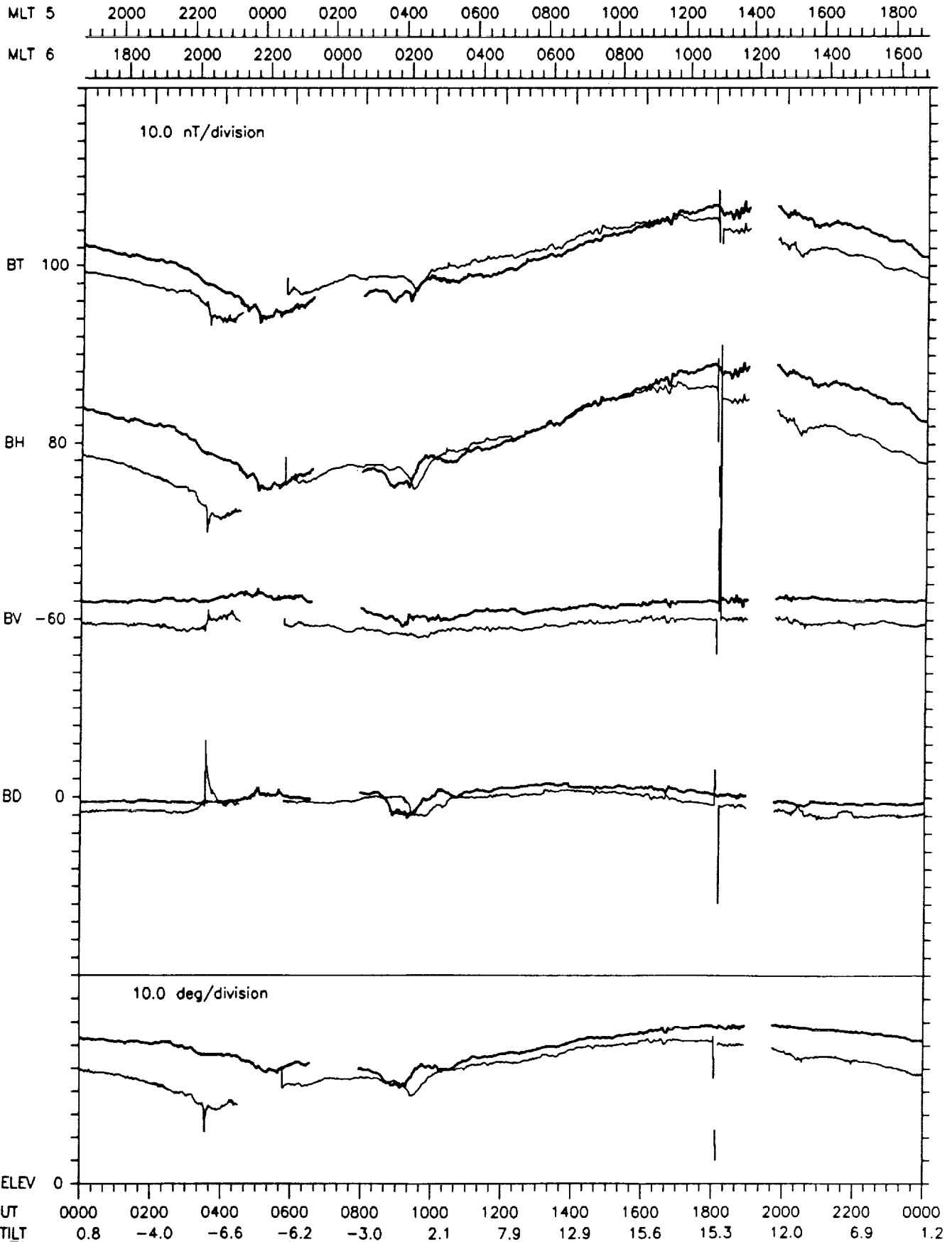
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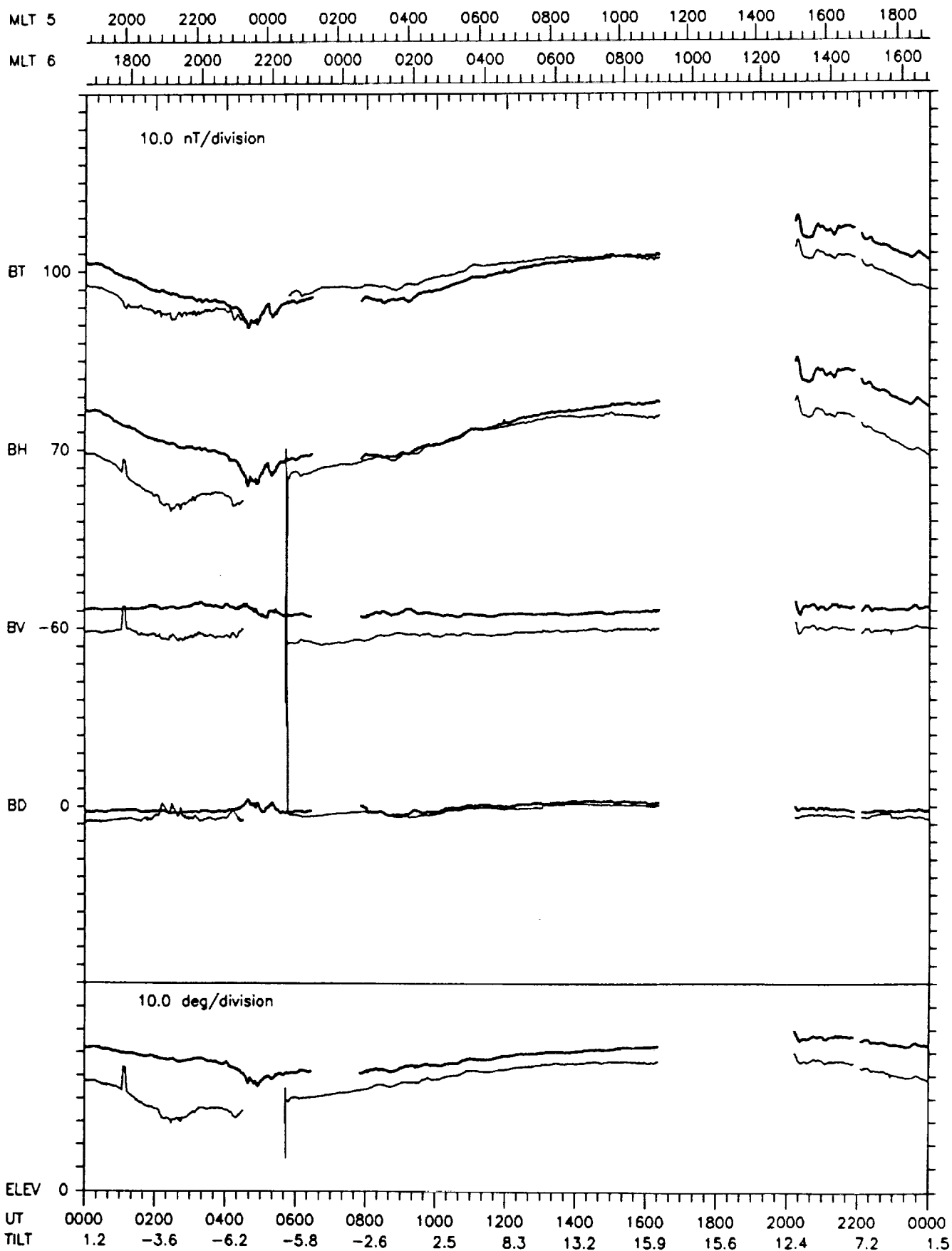
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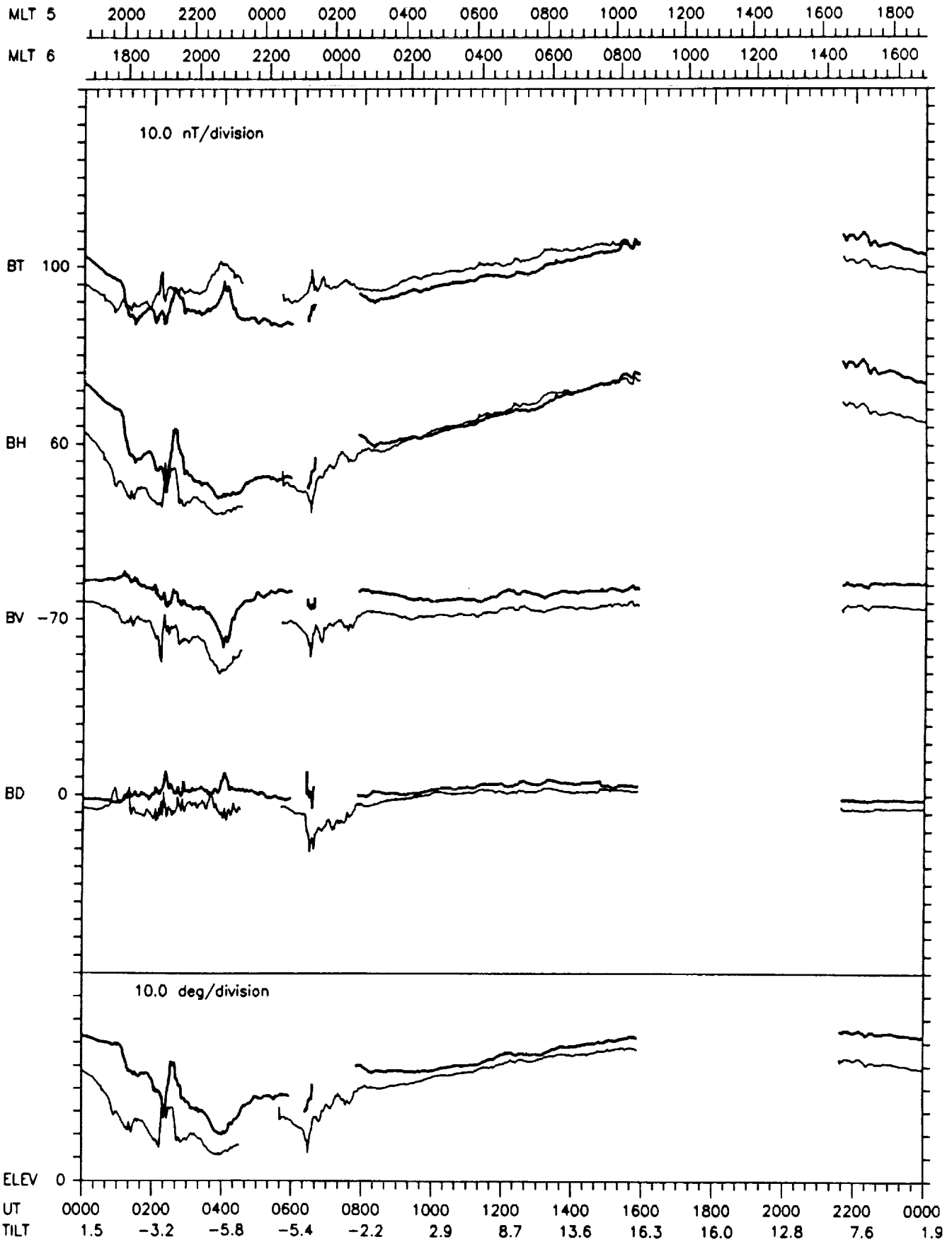
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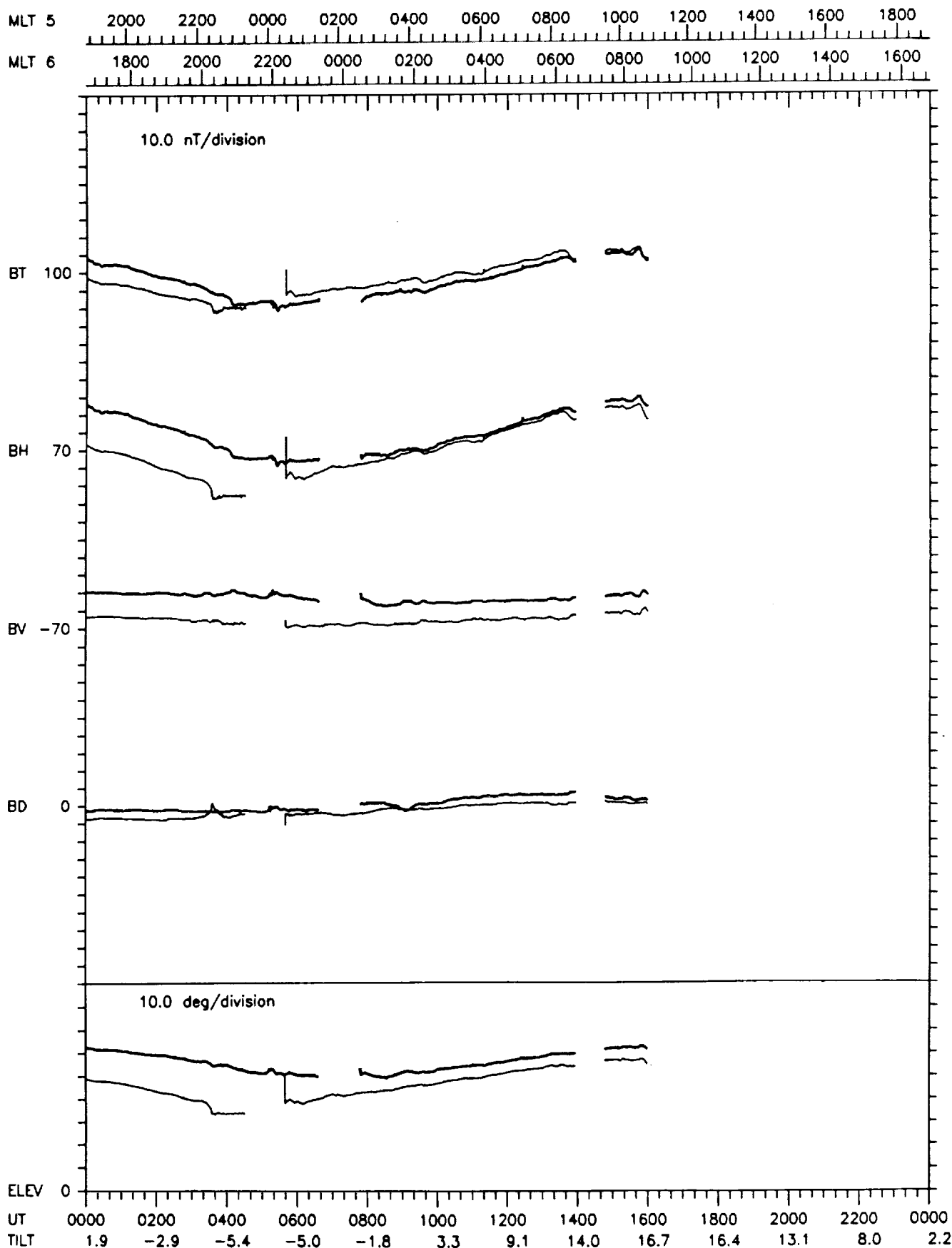
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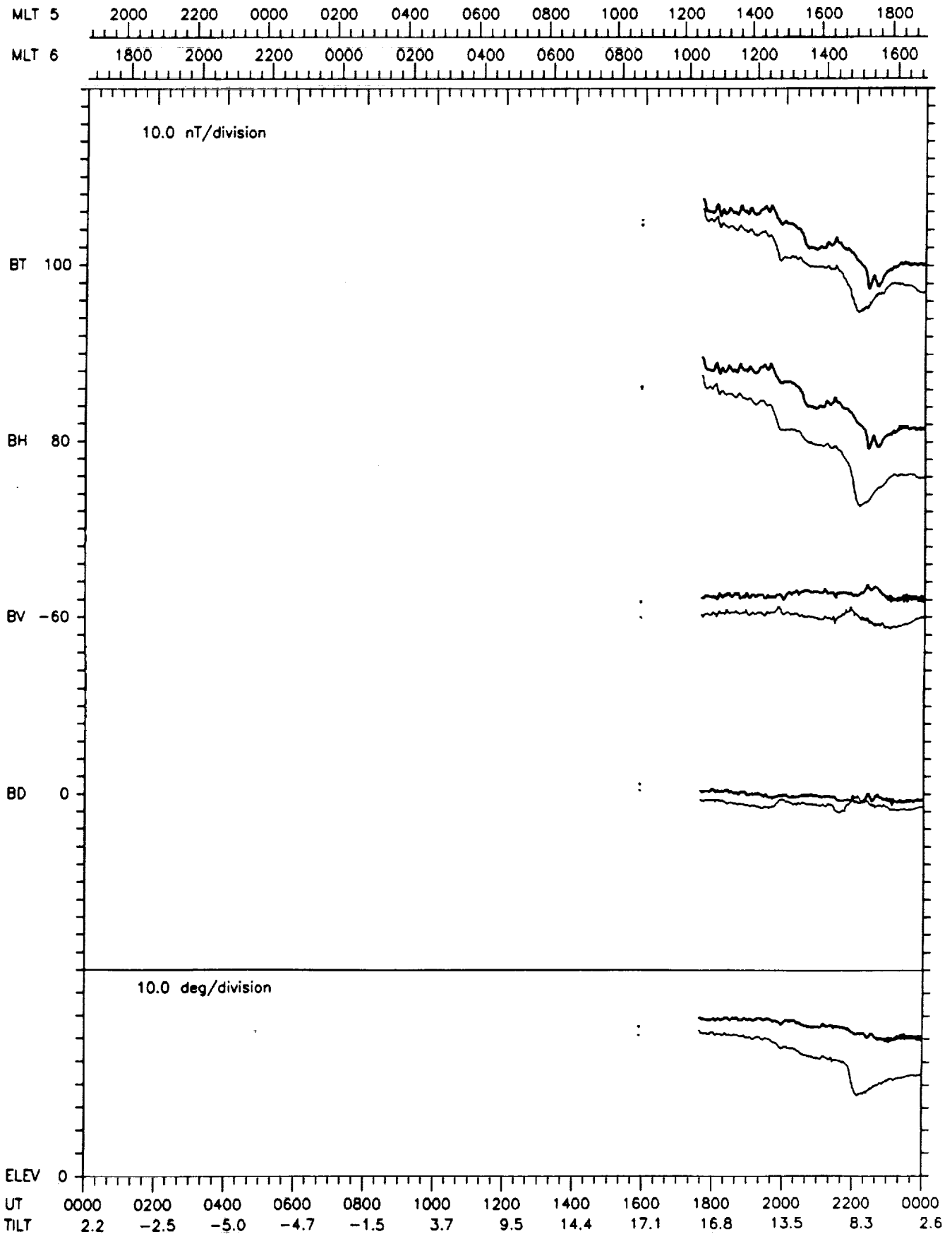
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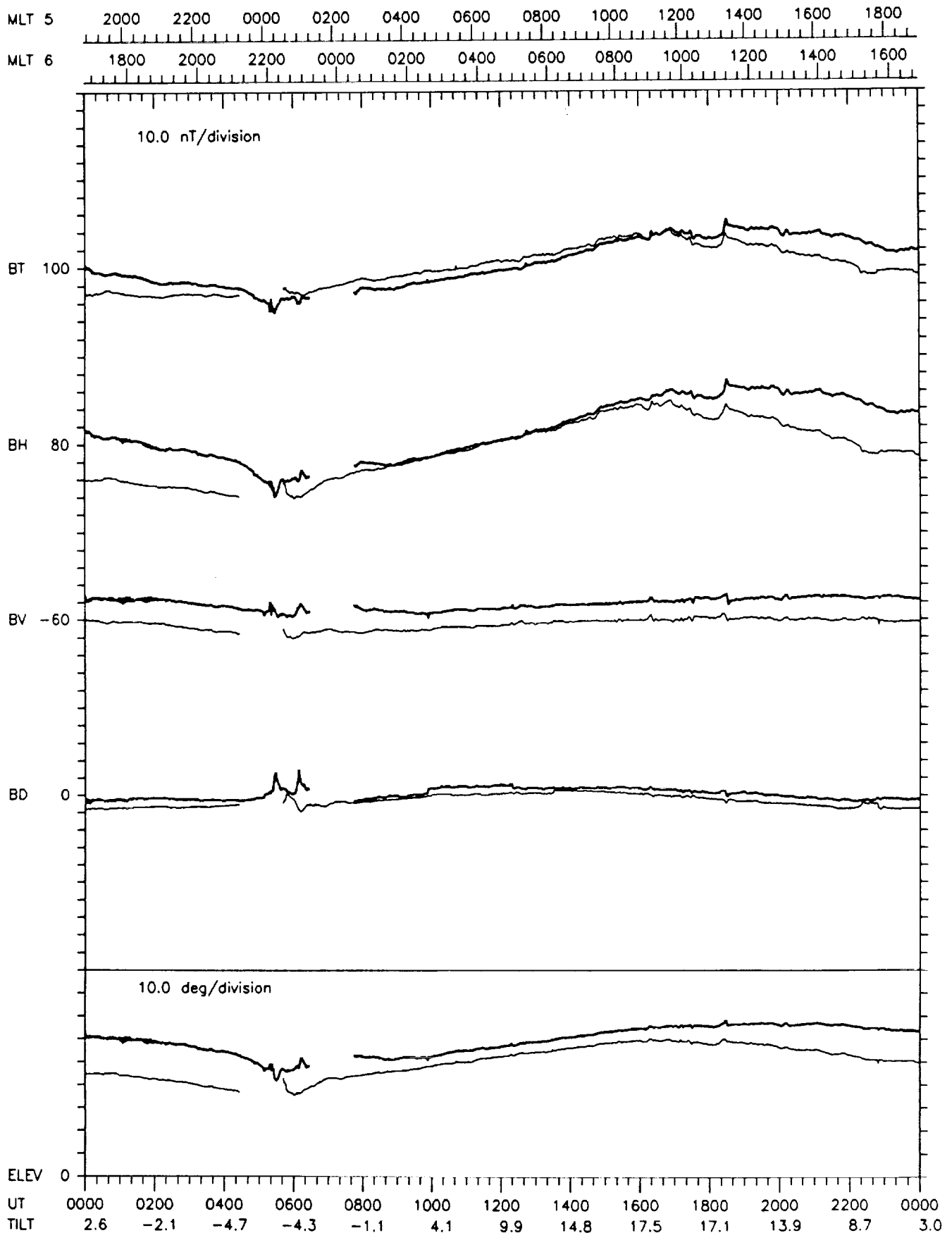
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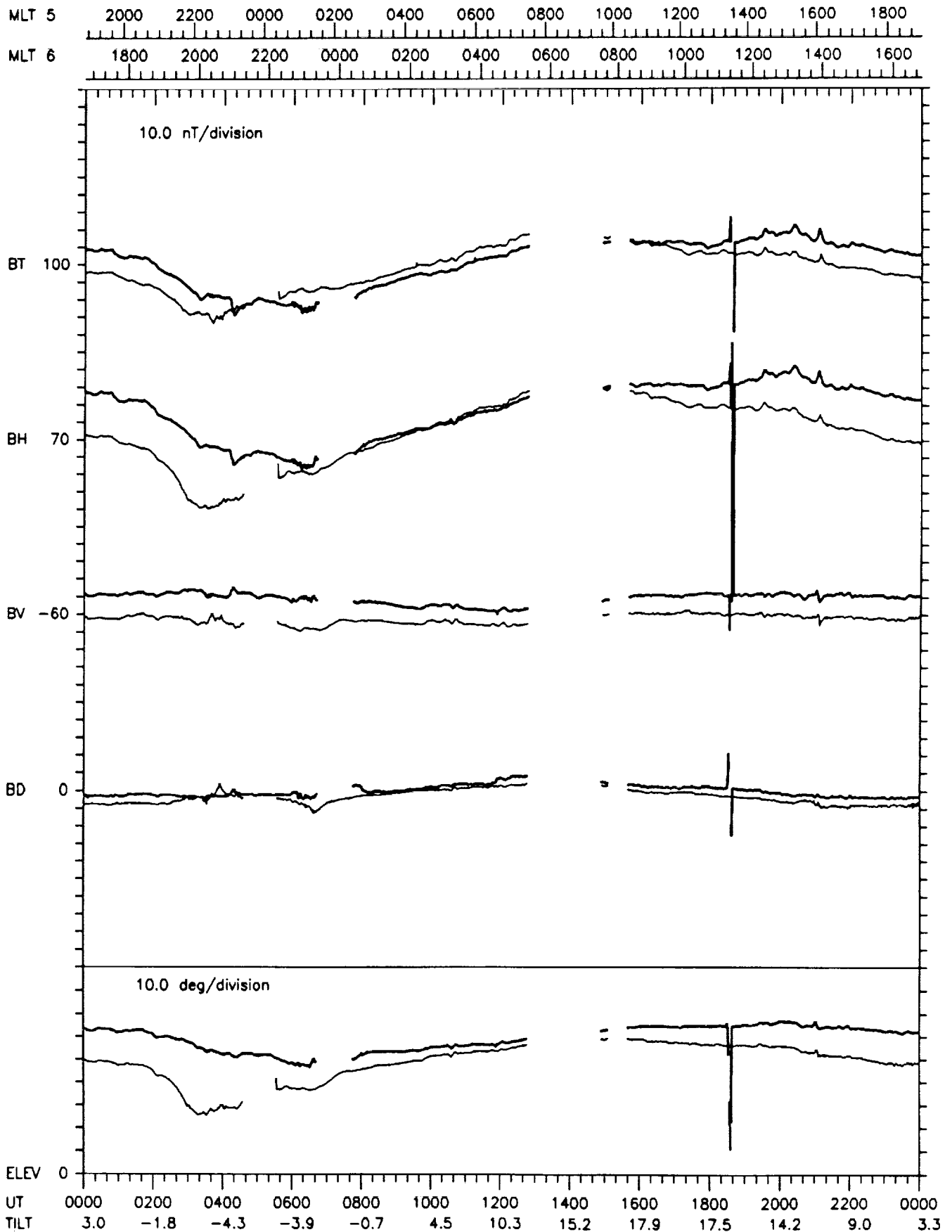
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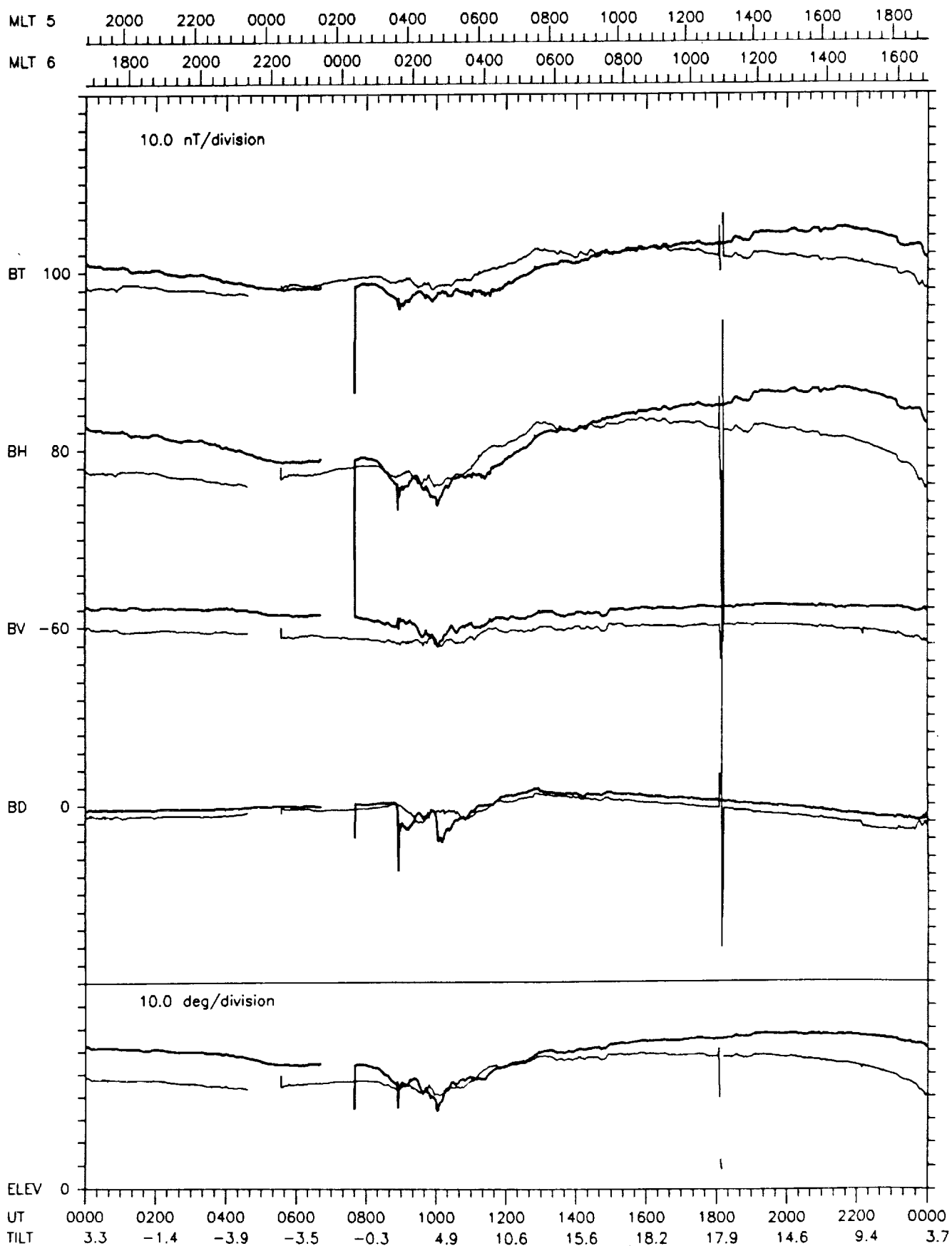
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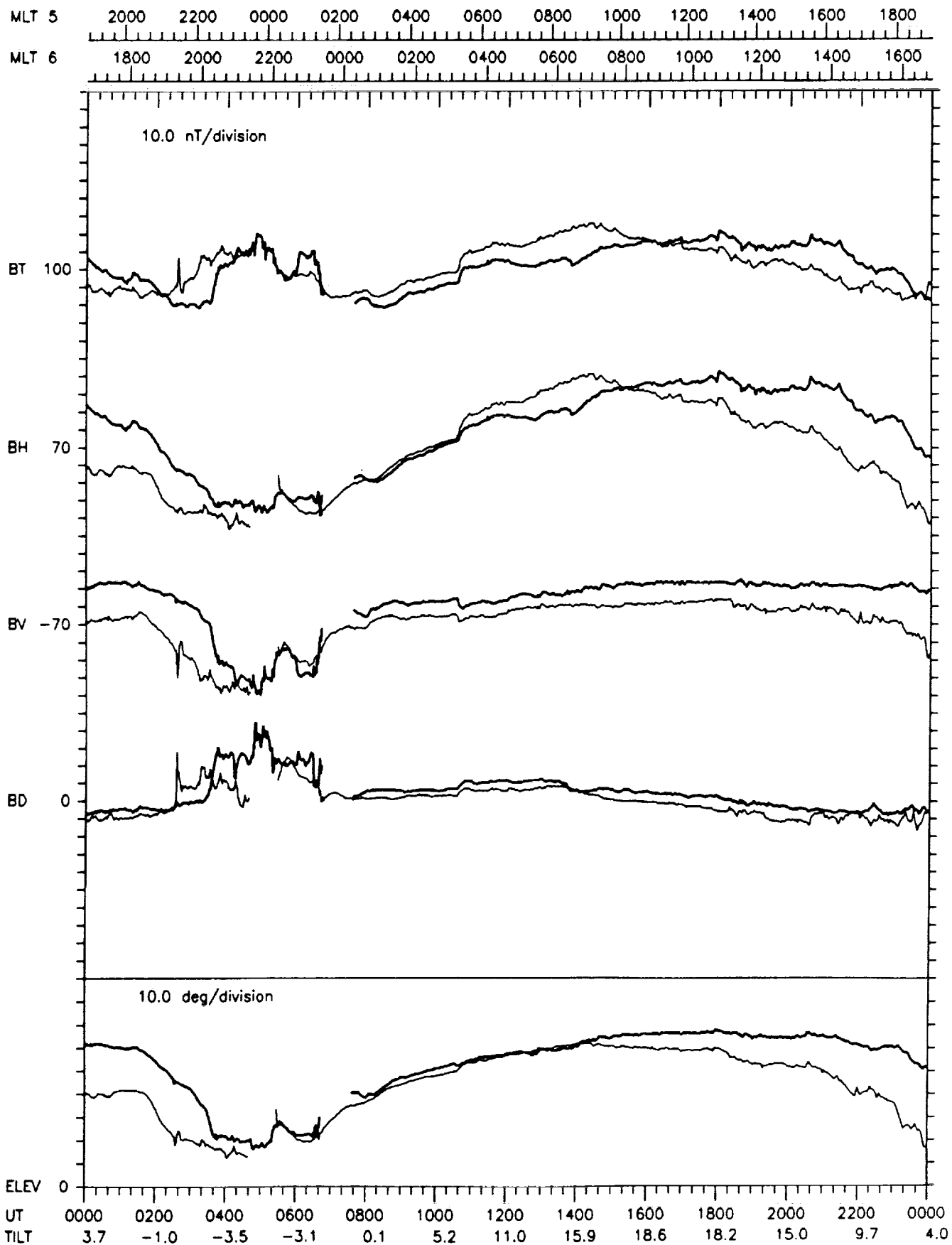
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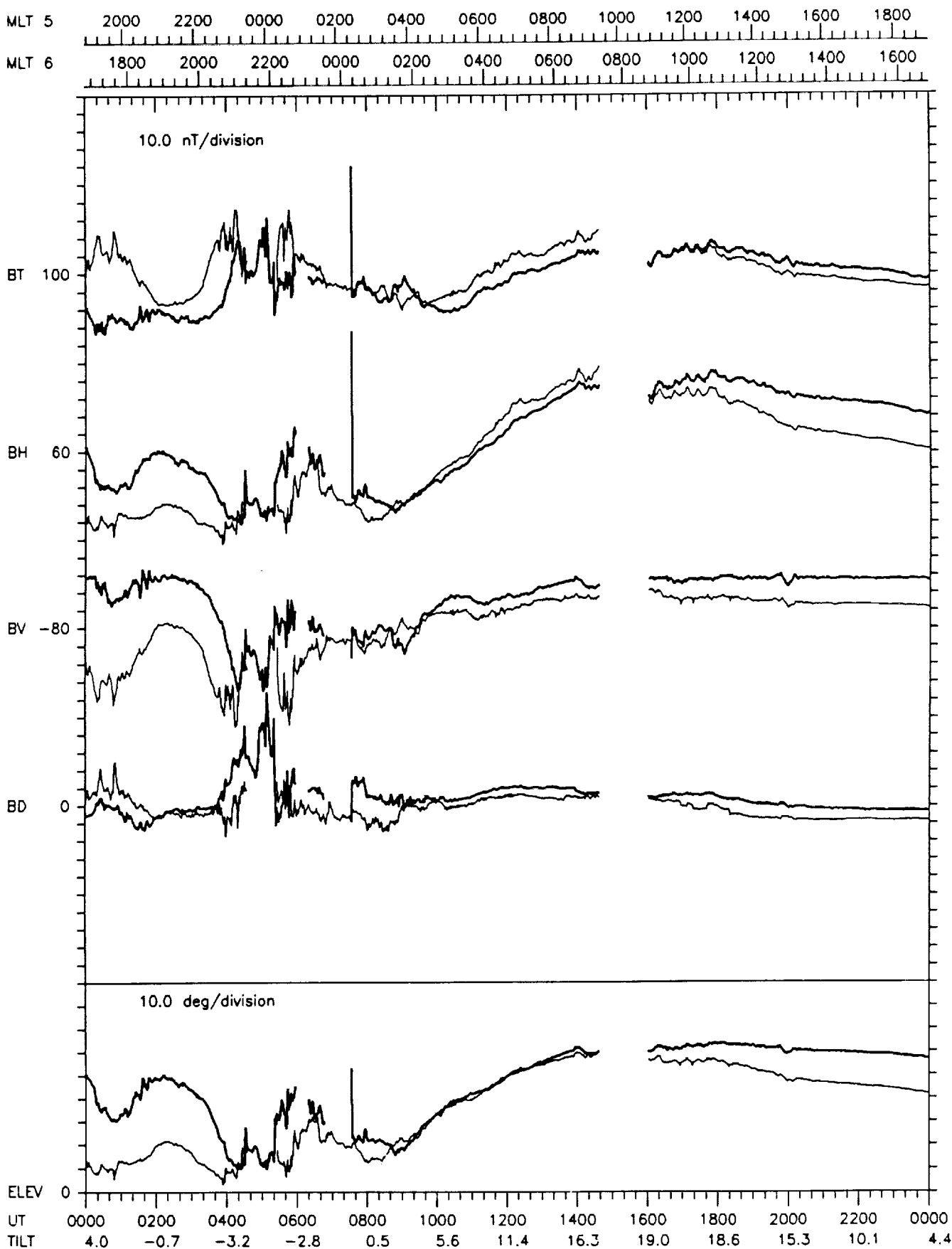
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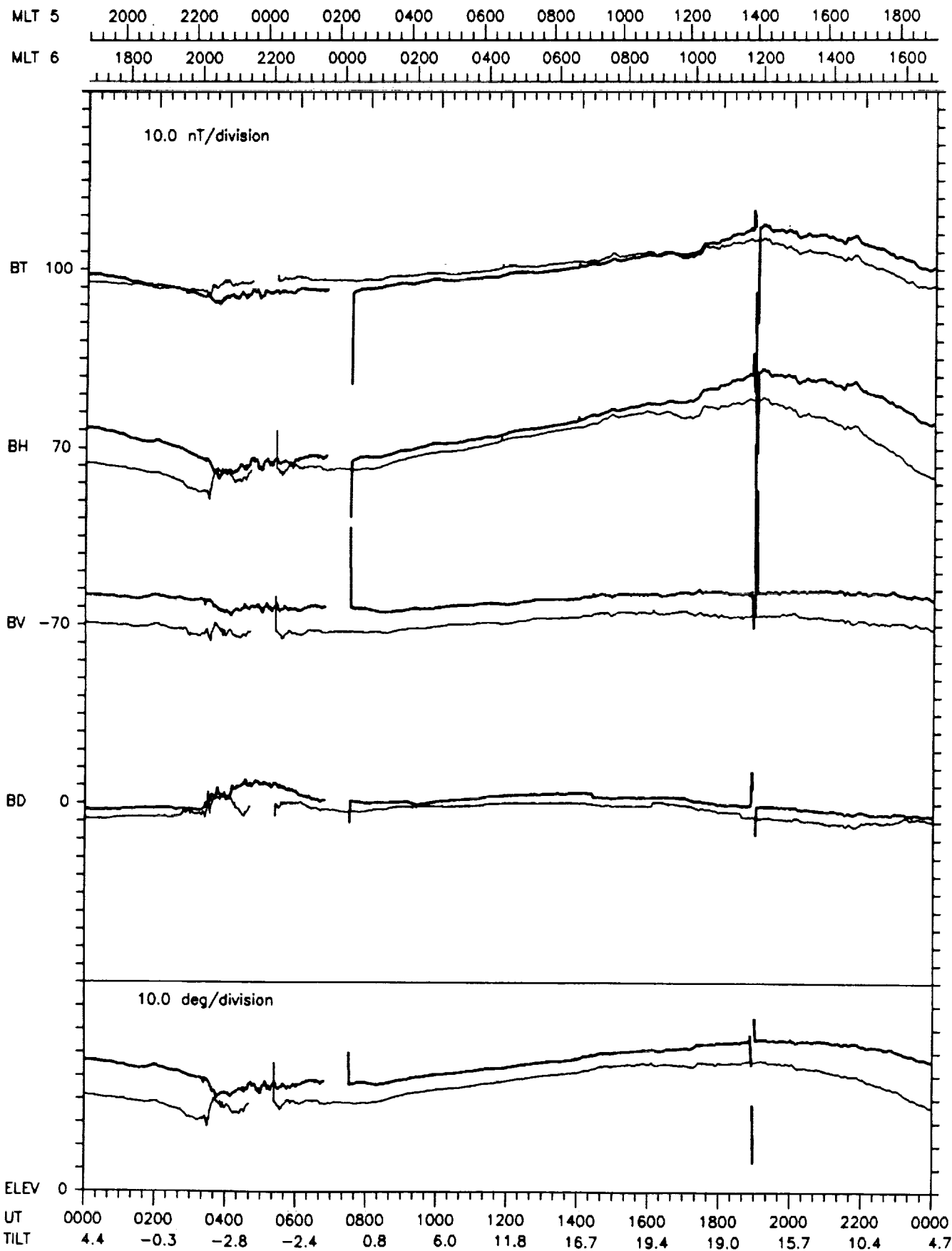
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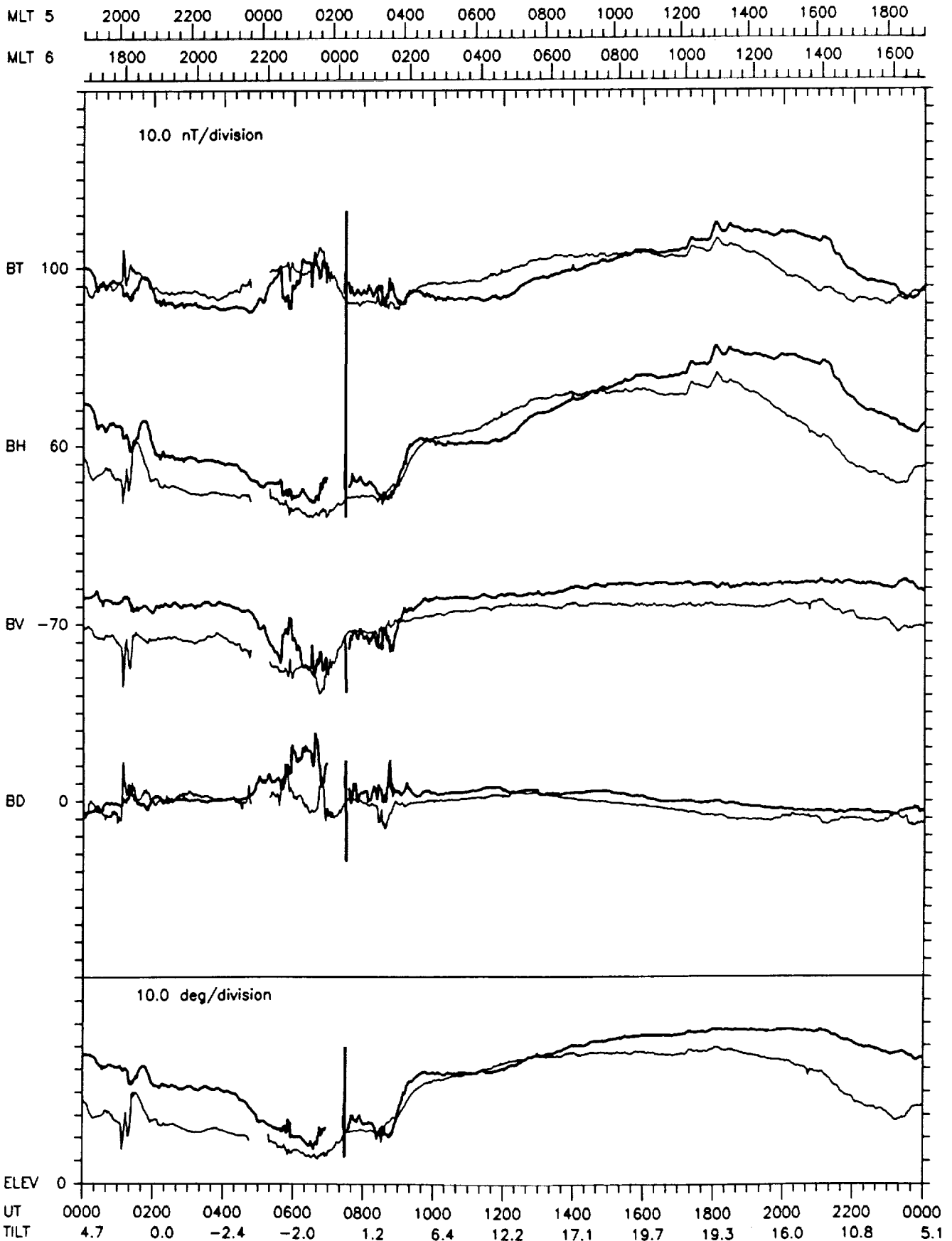
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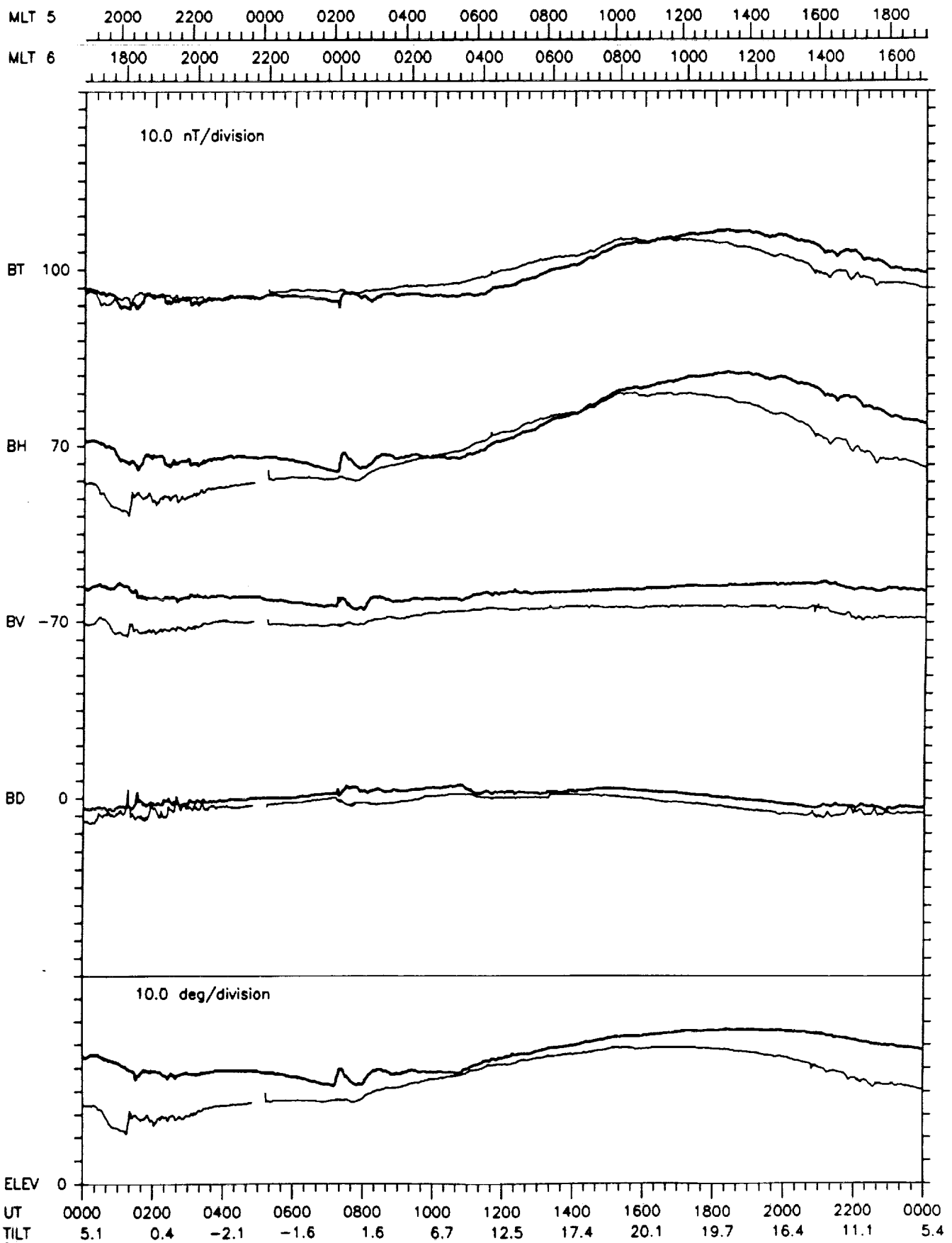
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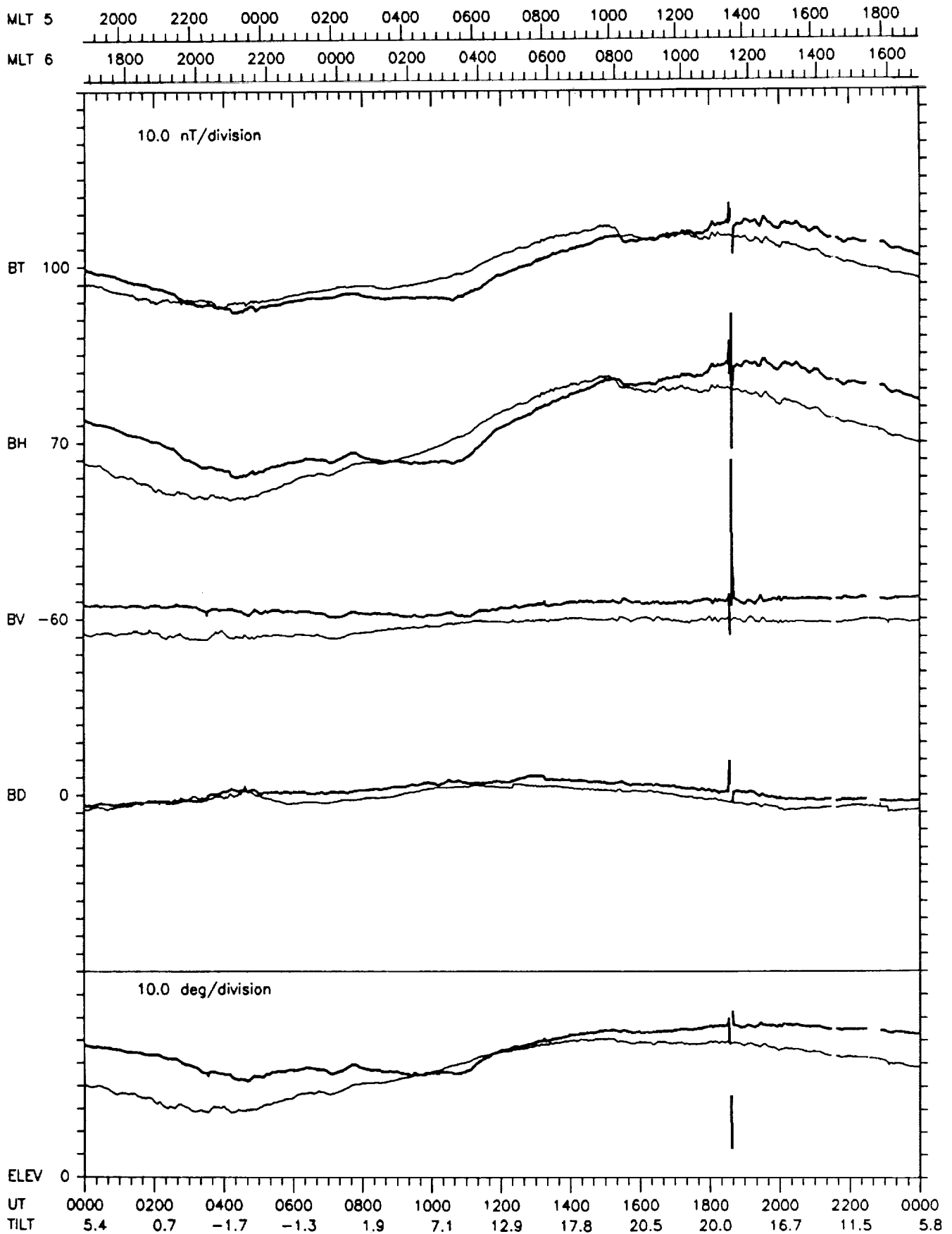
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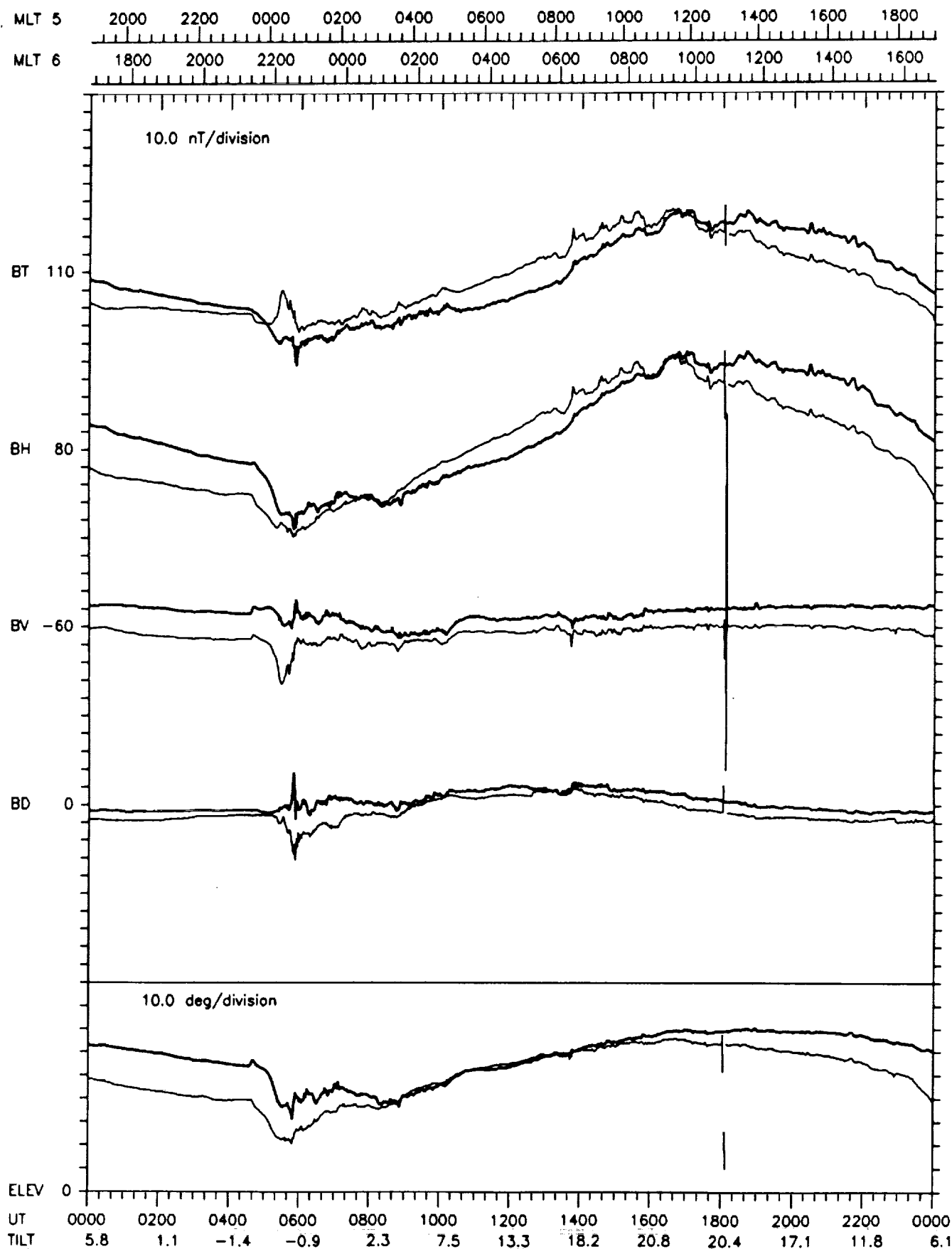
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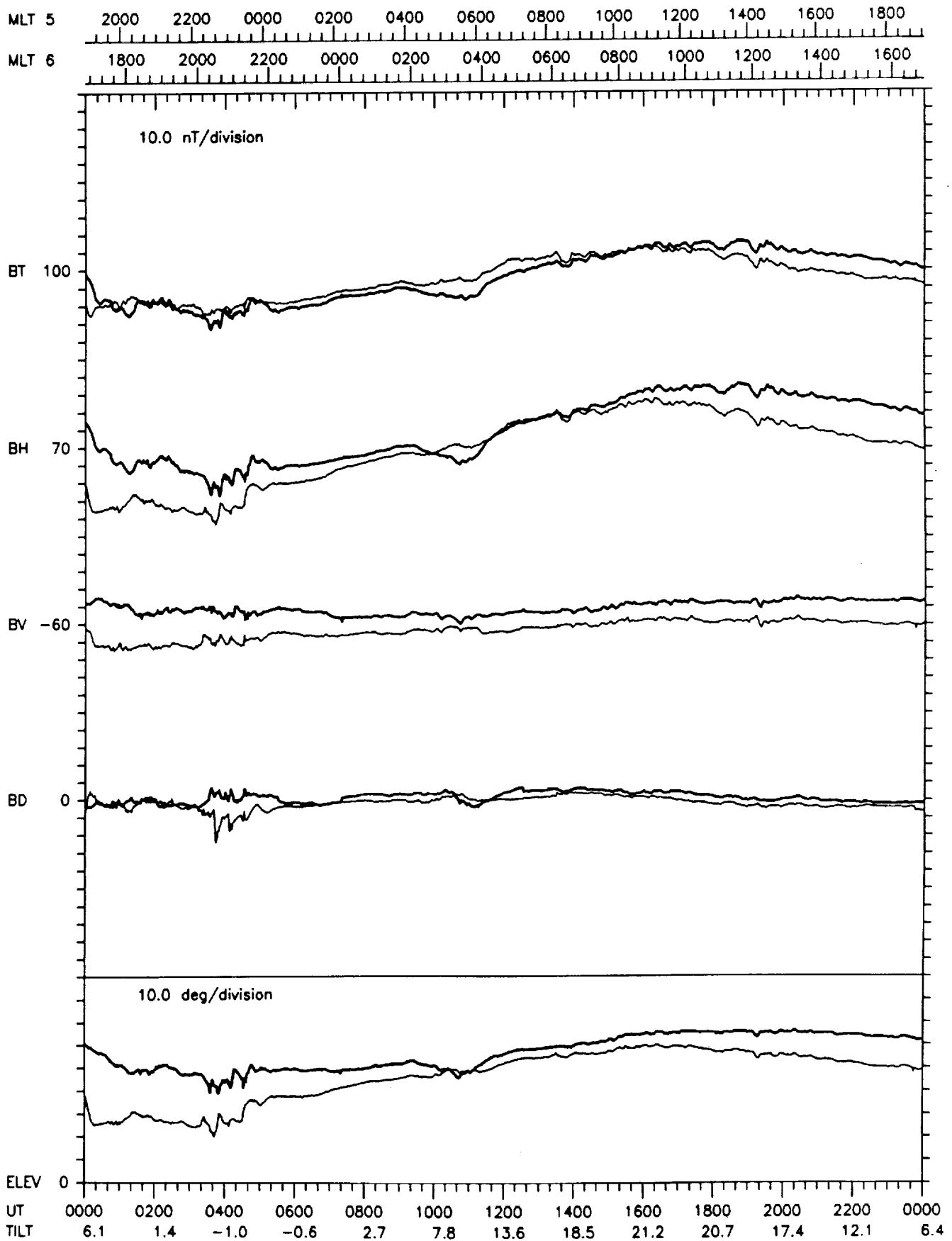
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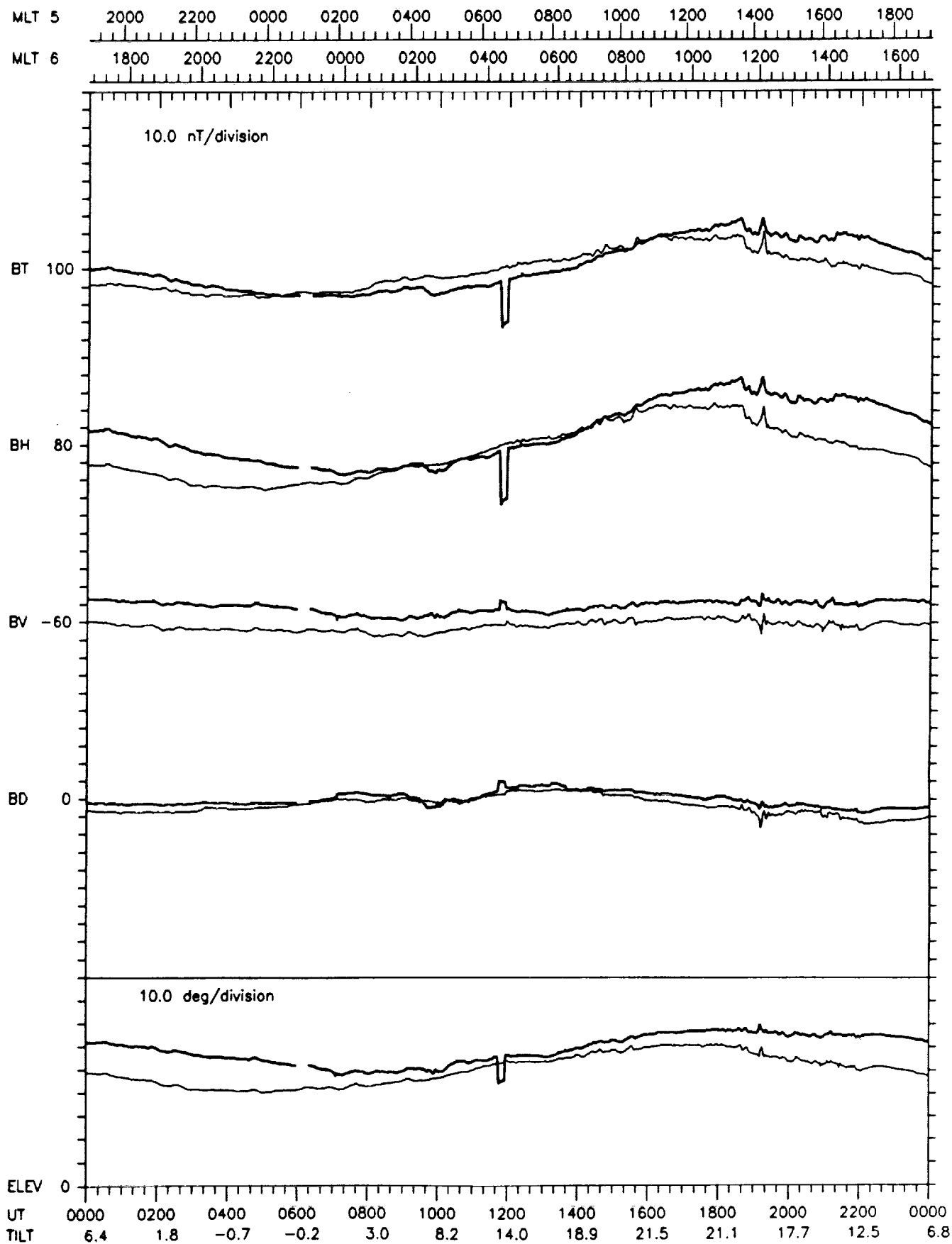
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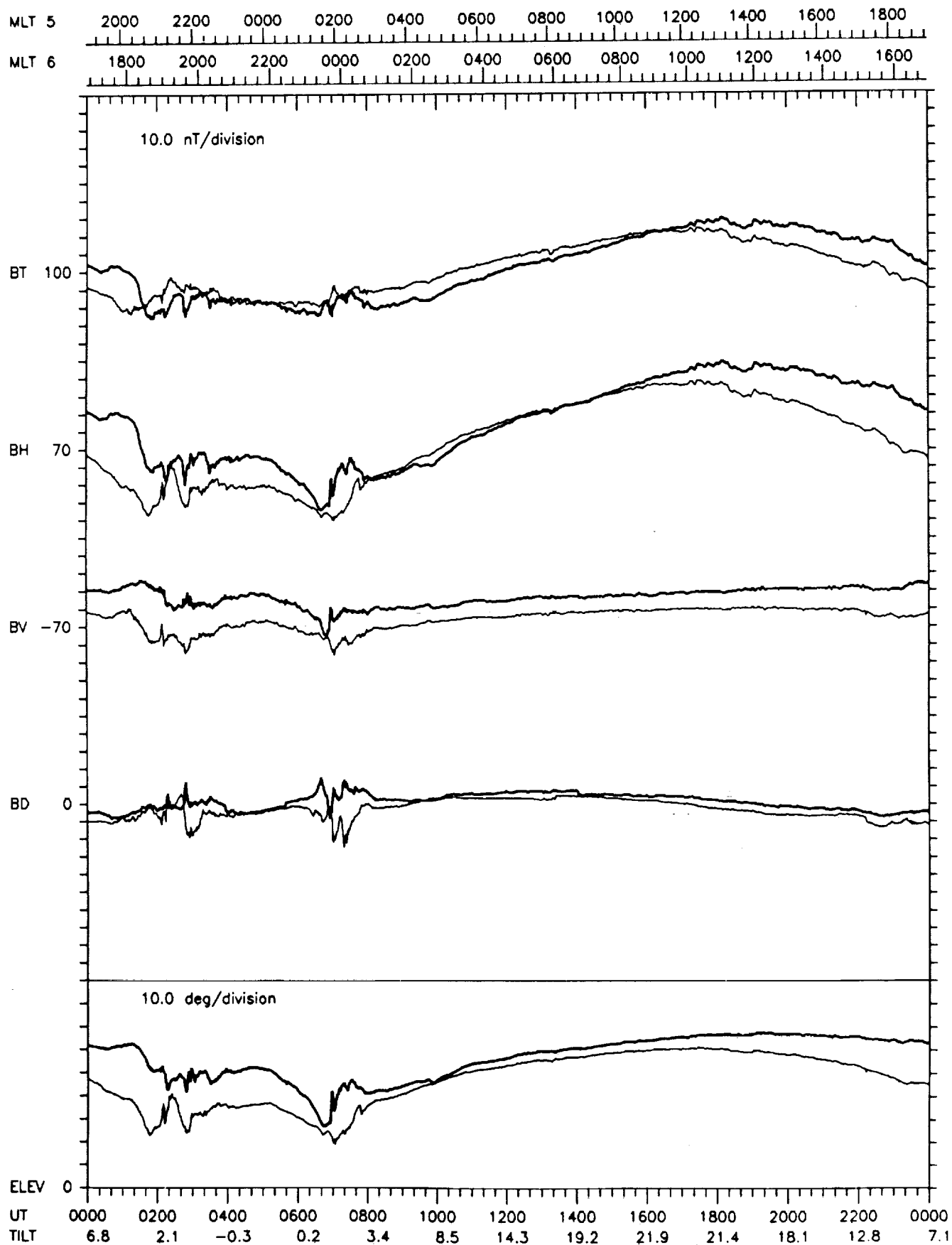
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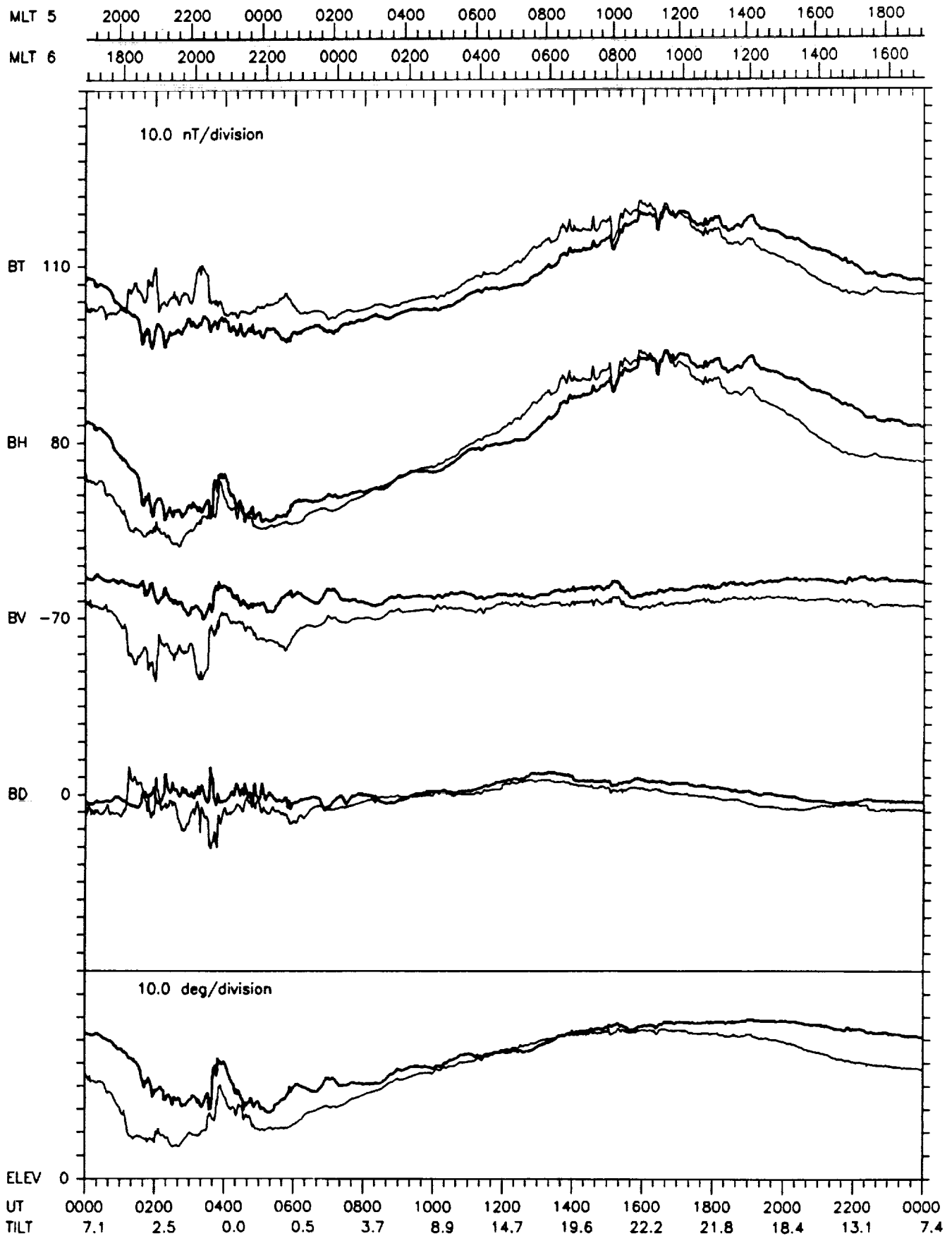
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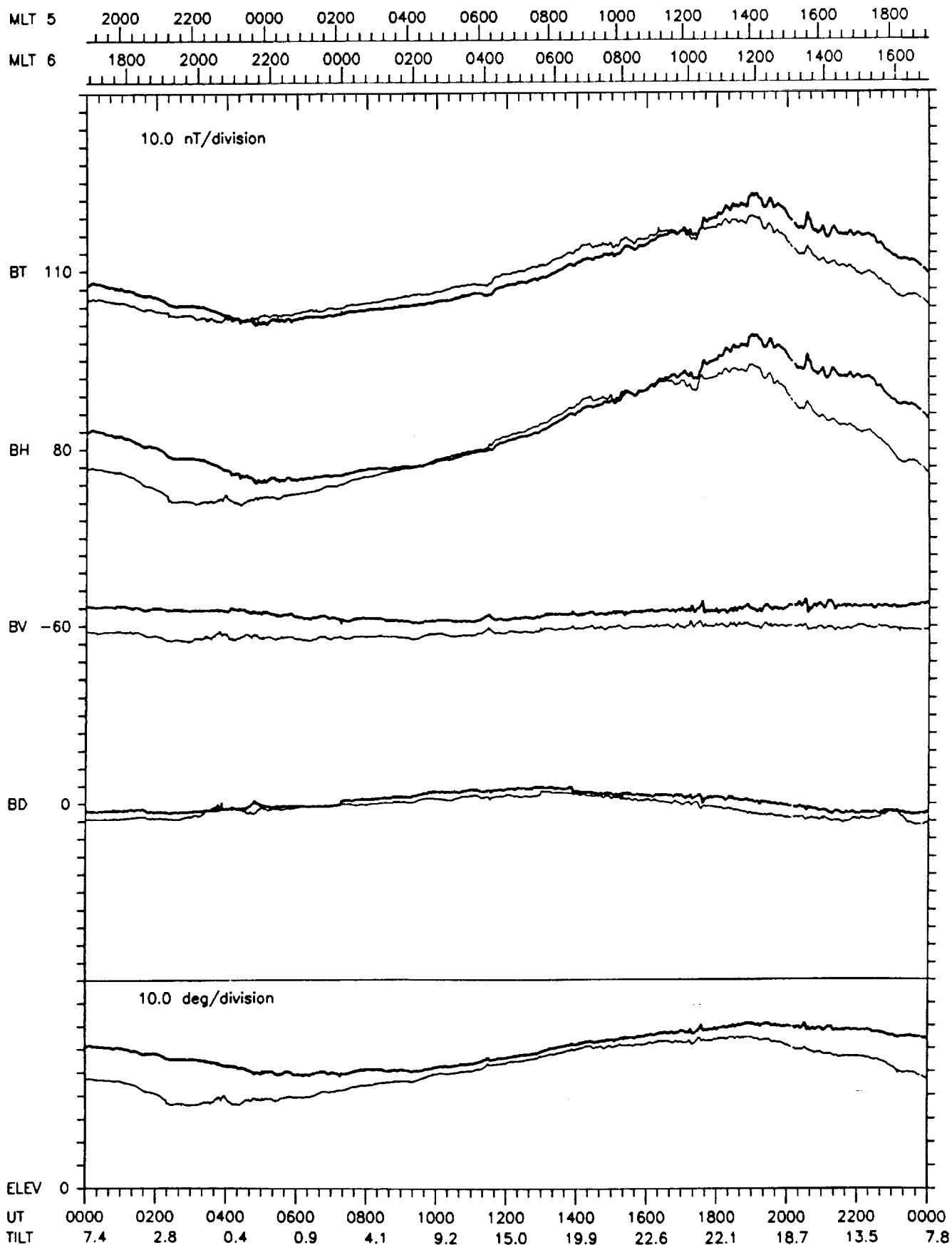
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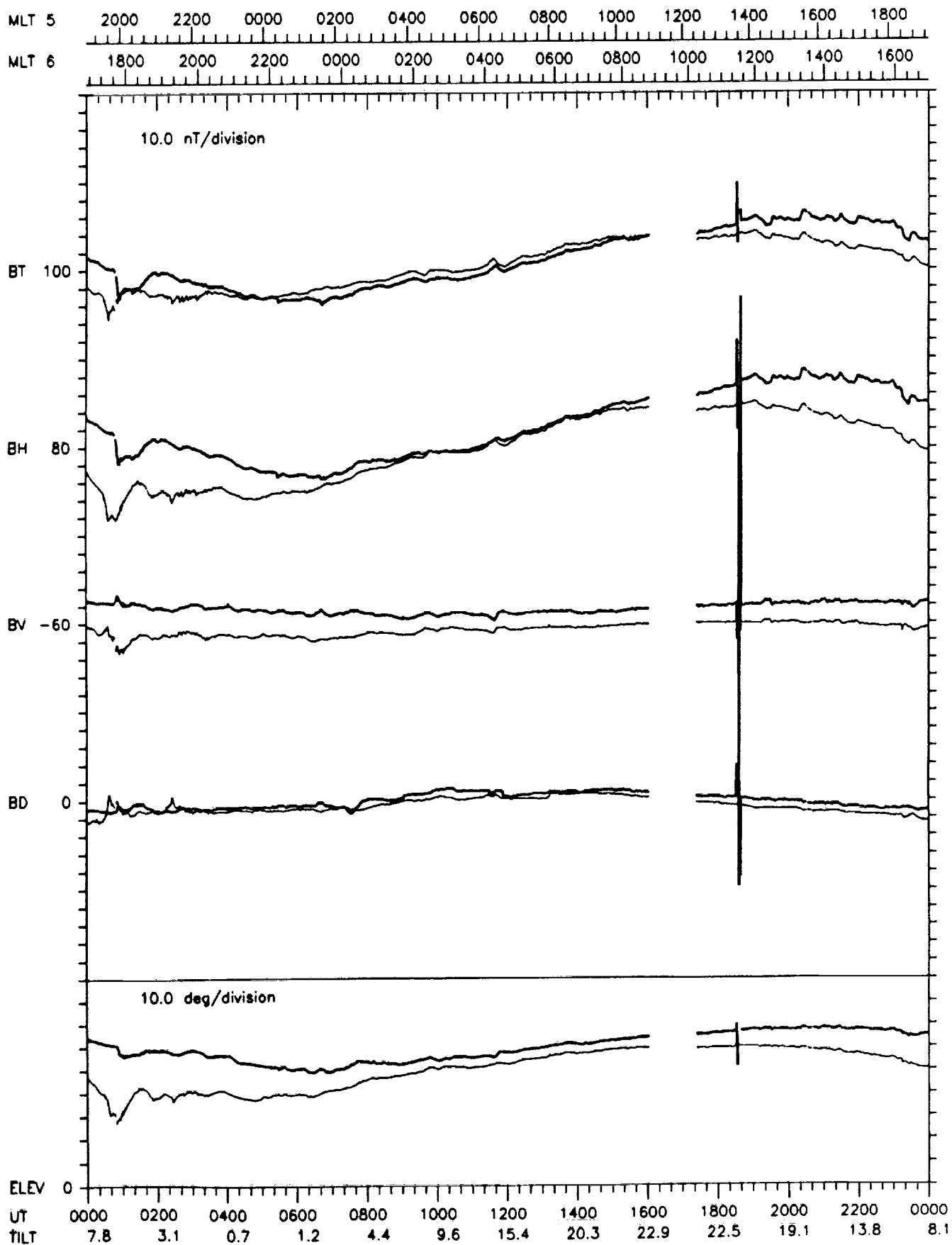
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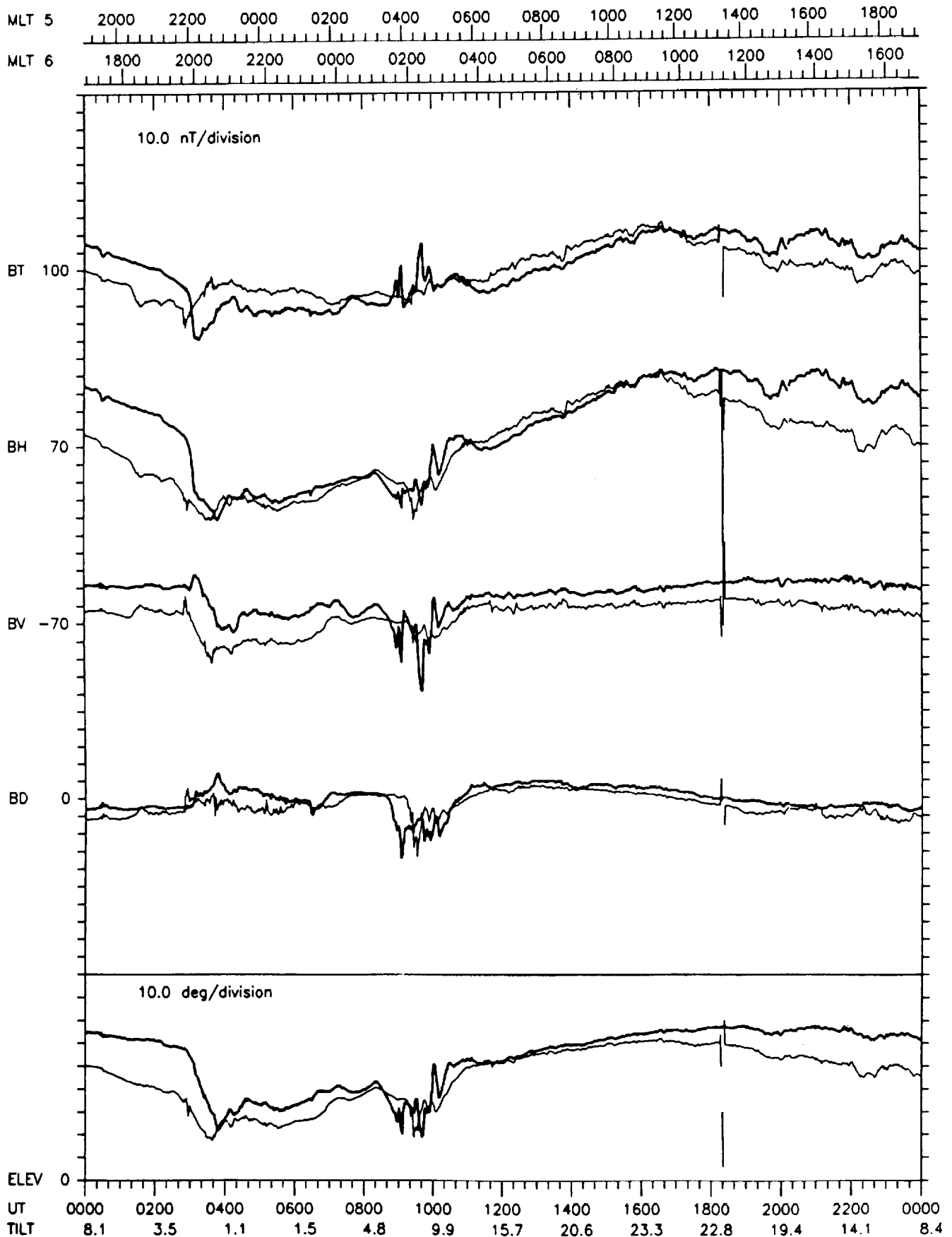
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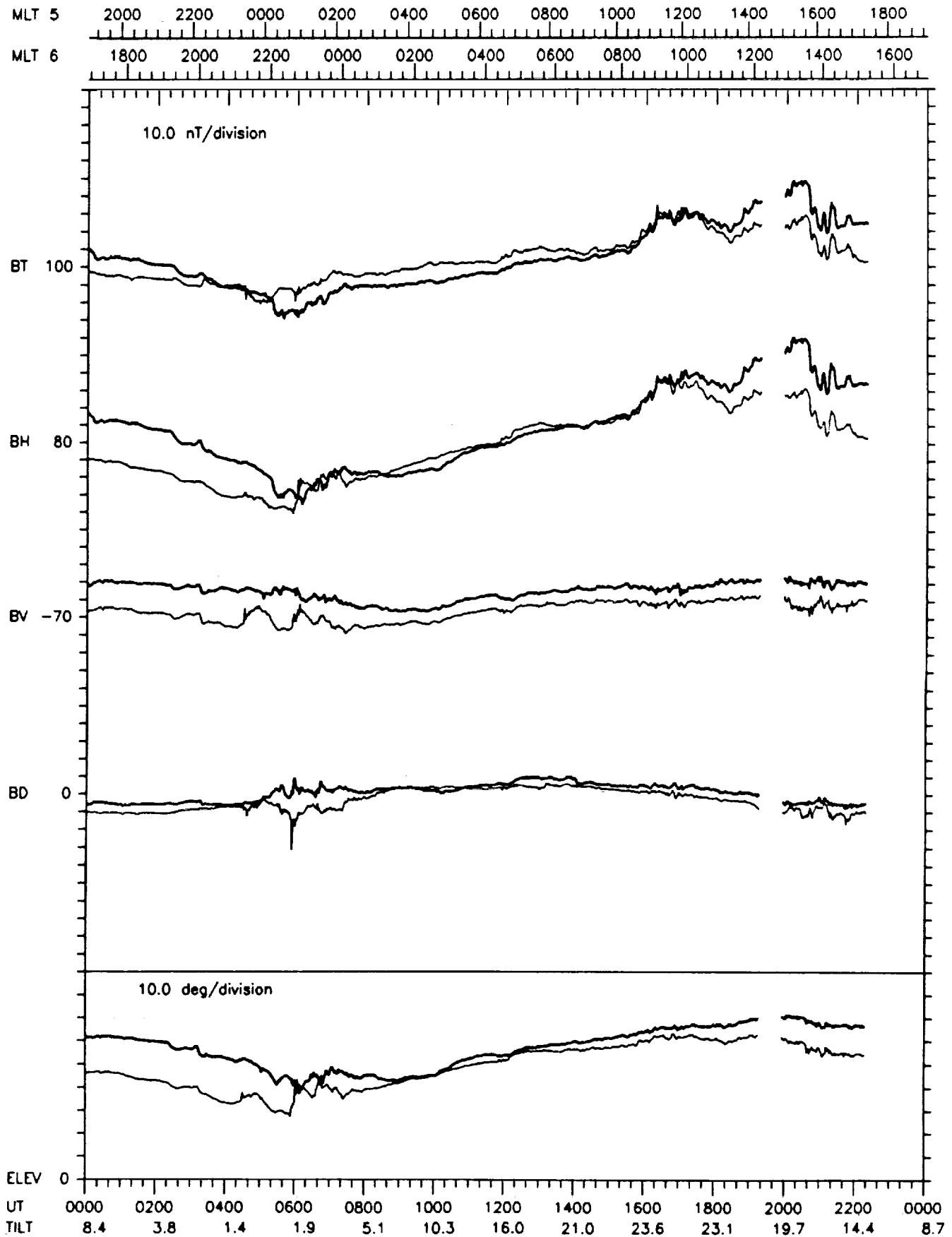
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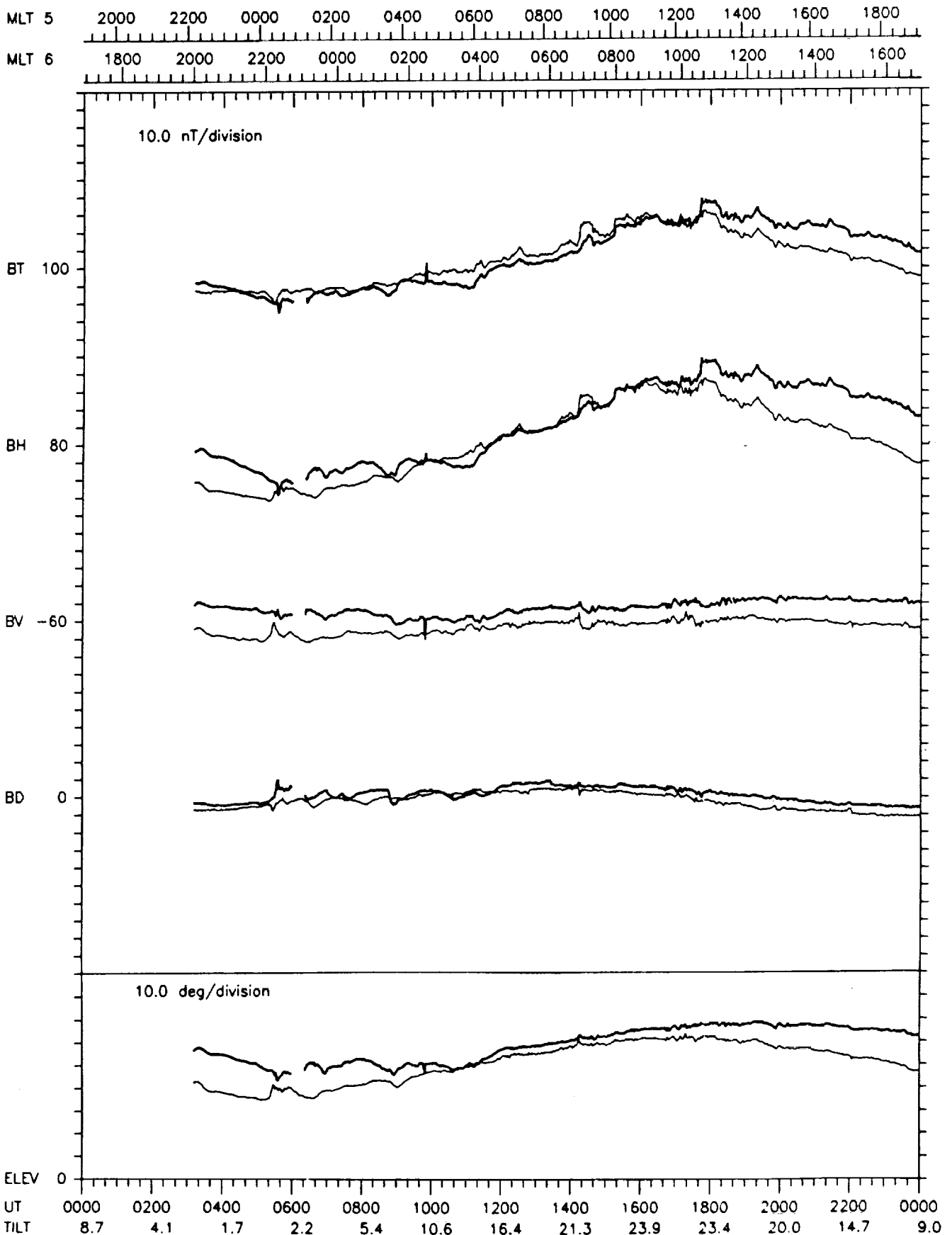
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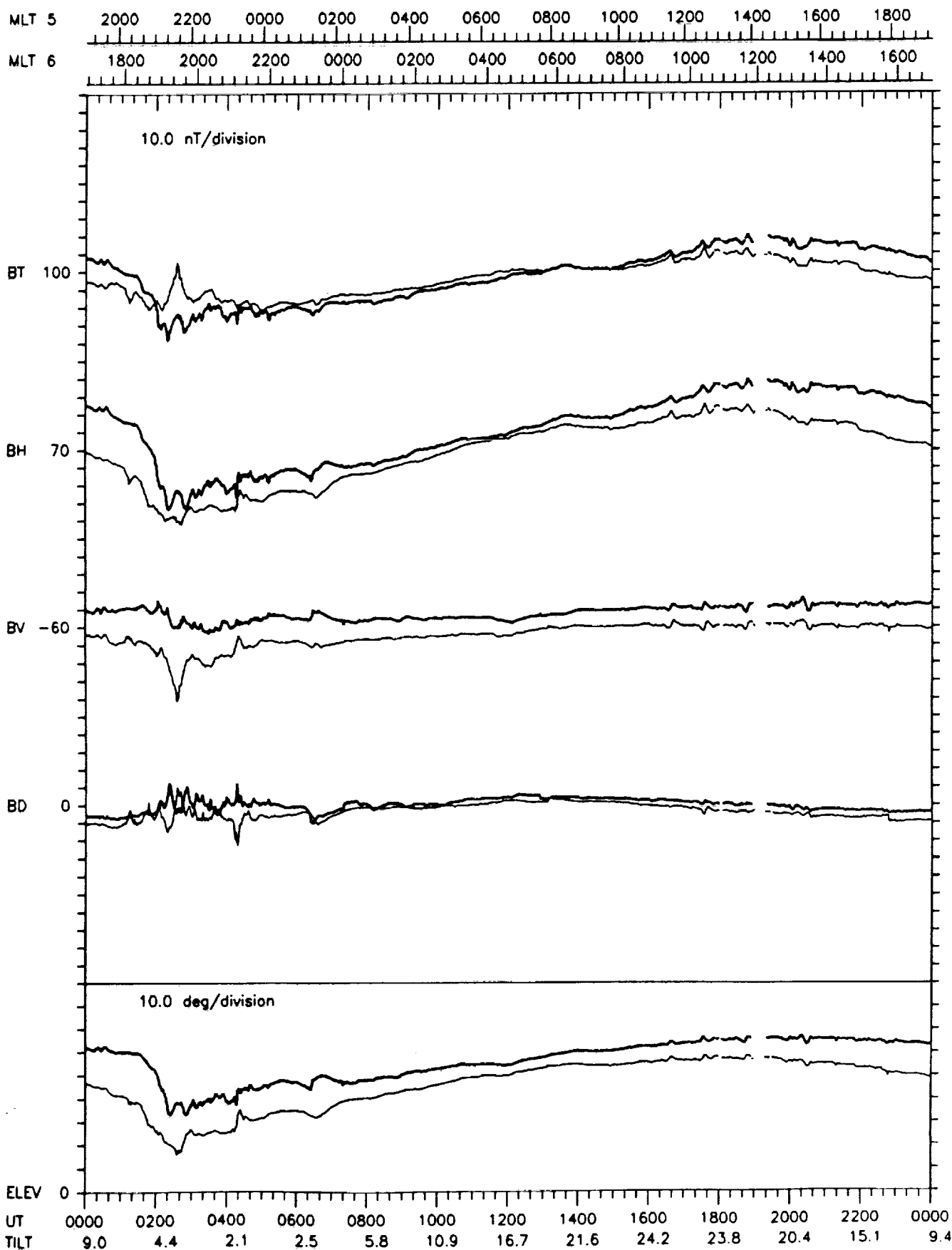
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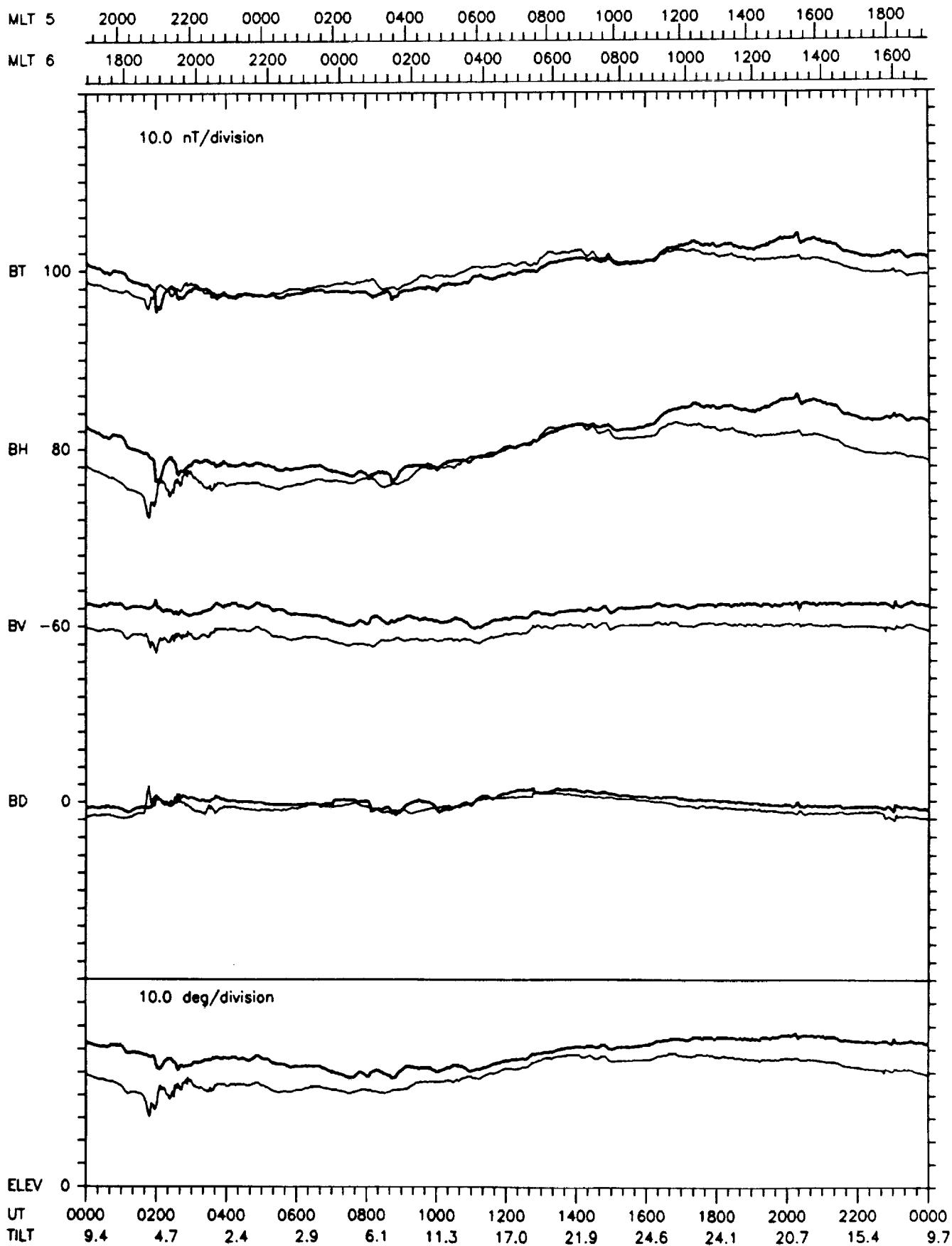
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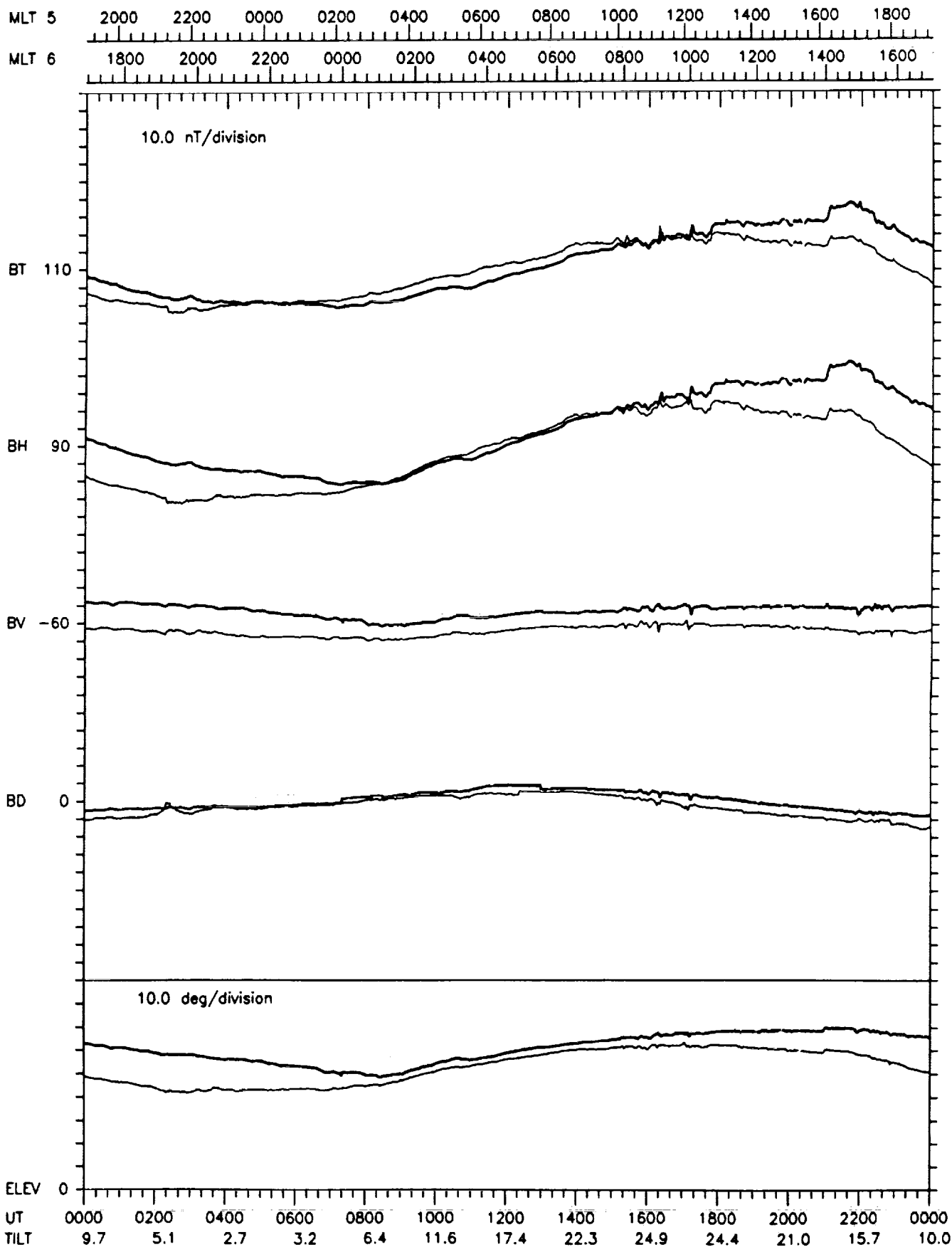
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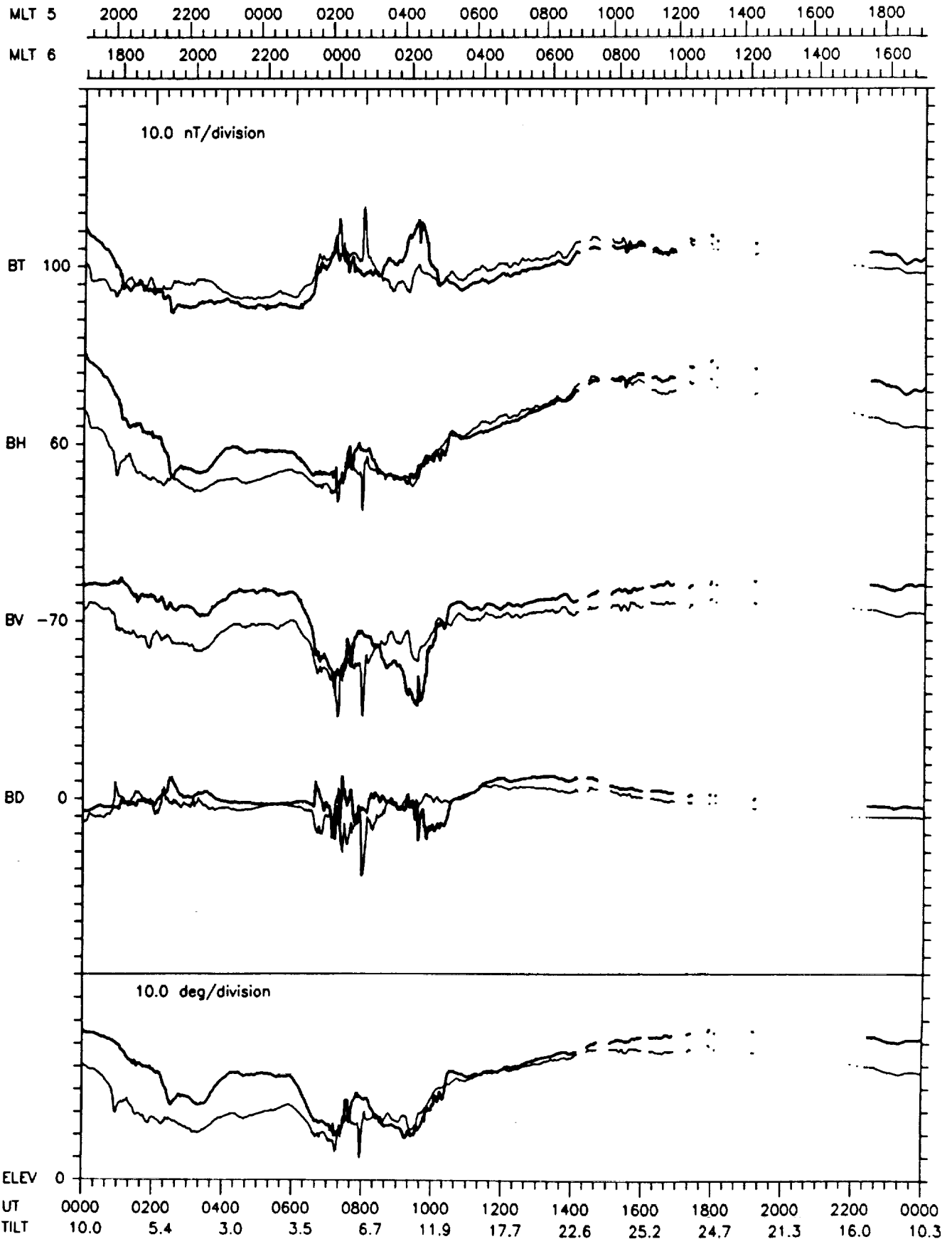
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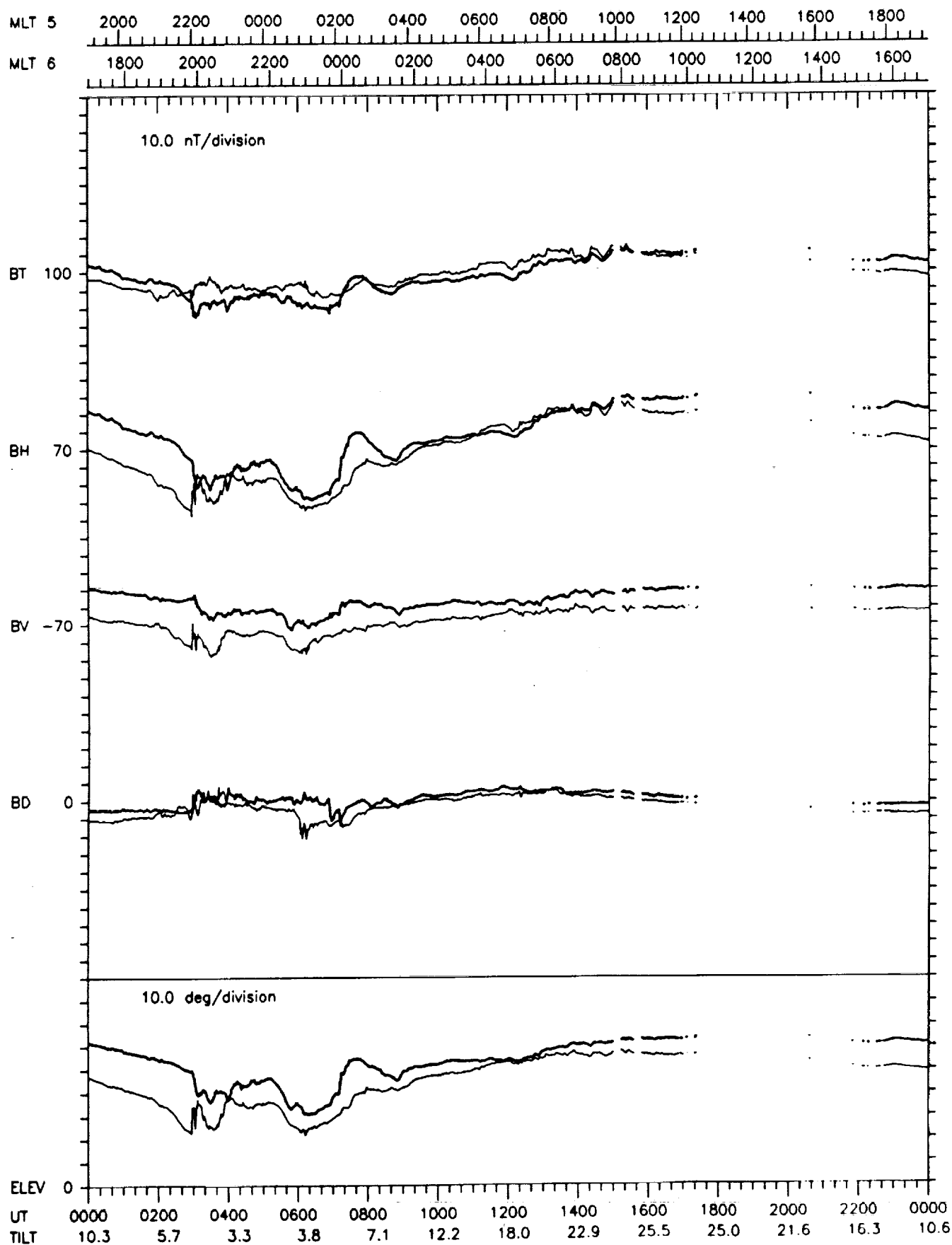
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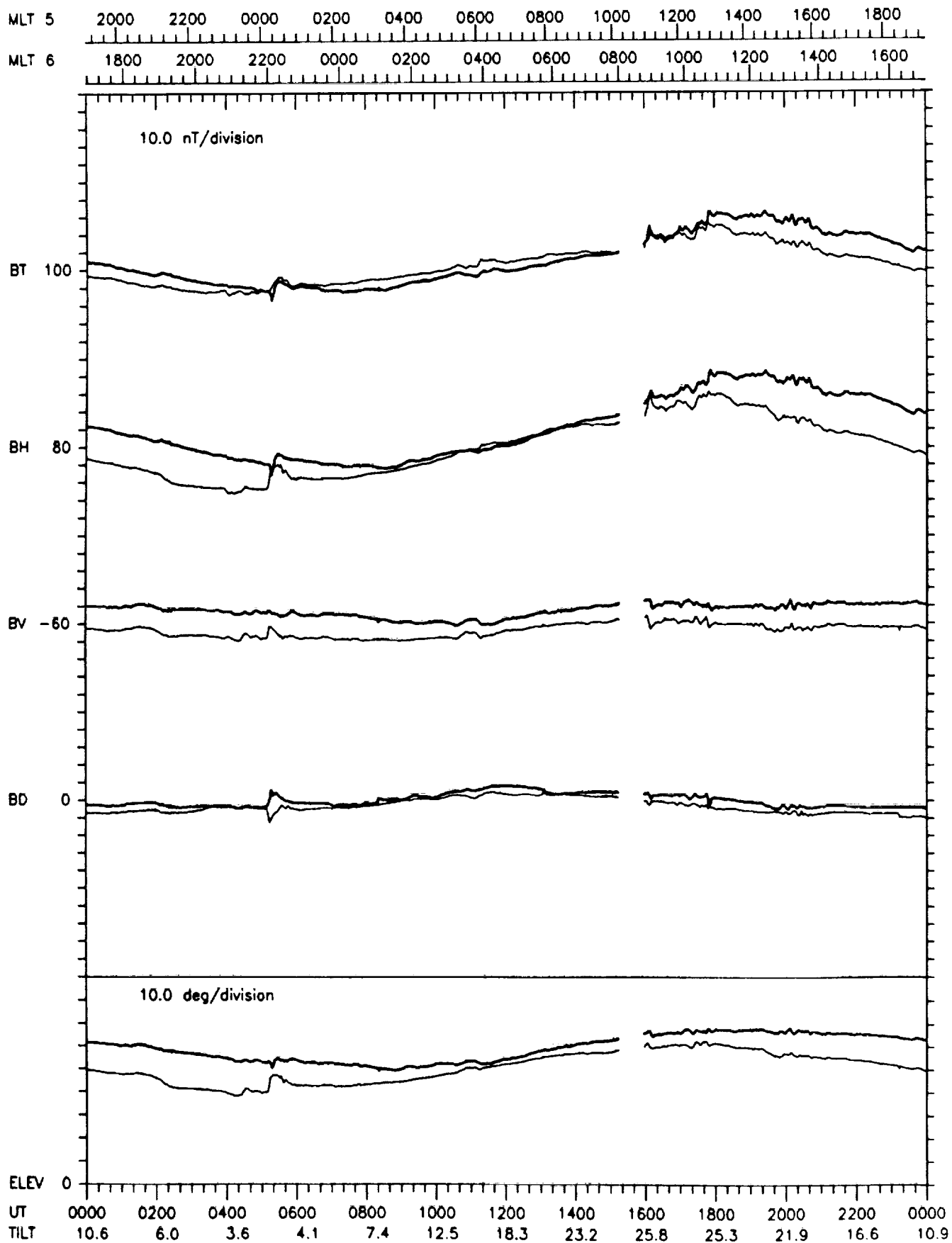
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY118 APR 28
 GEOLON, MAGLAT = 5(-75.5, 11.2) 6(-107.8, 8.9)



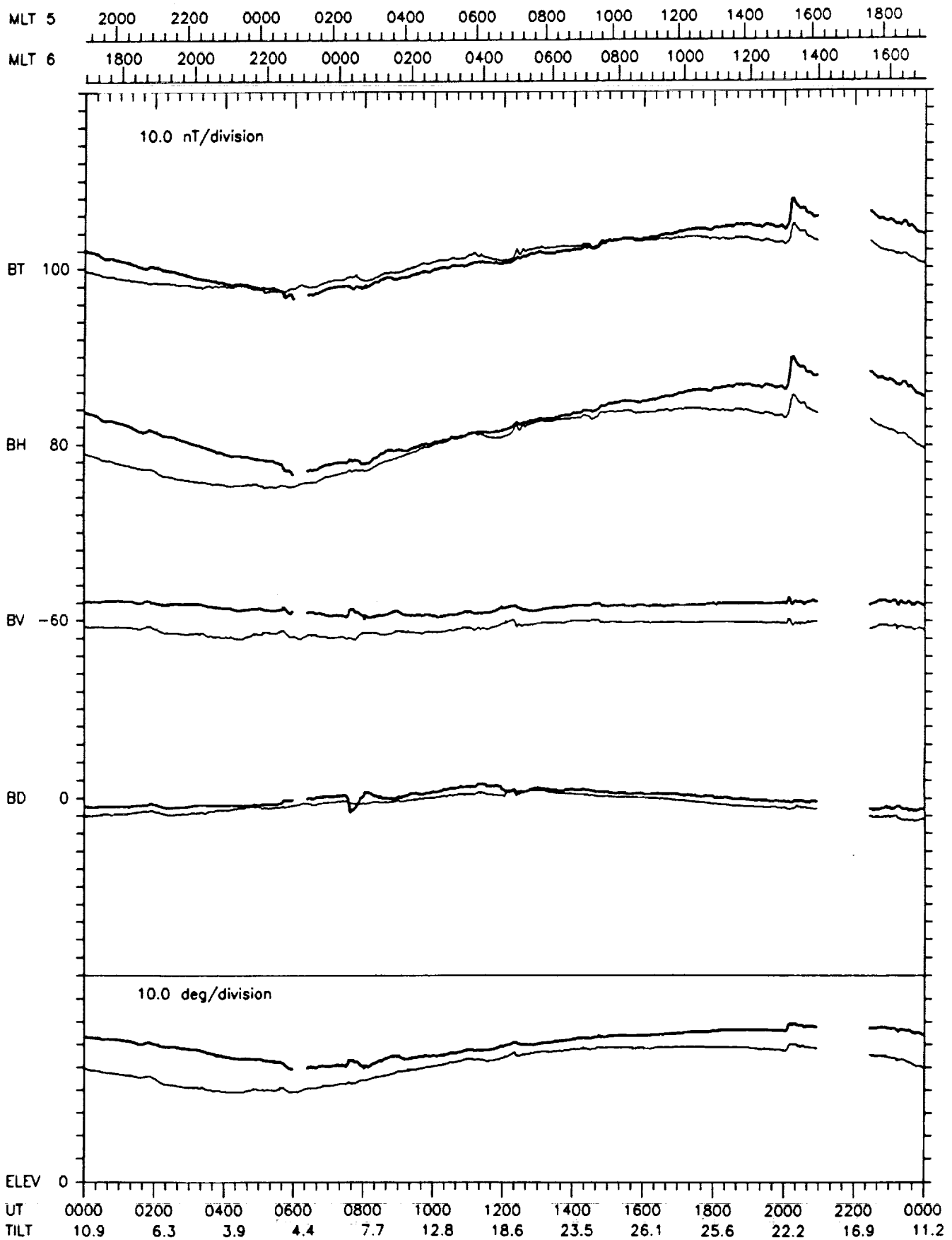
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY119 APR 29
 GEOLON, MAGLAT = 5(-75.5, 11.2) 6(-107.8, 8.9)



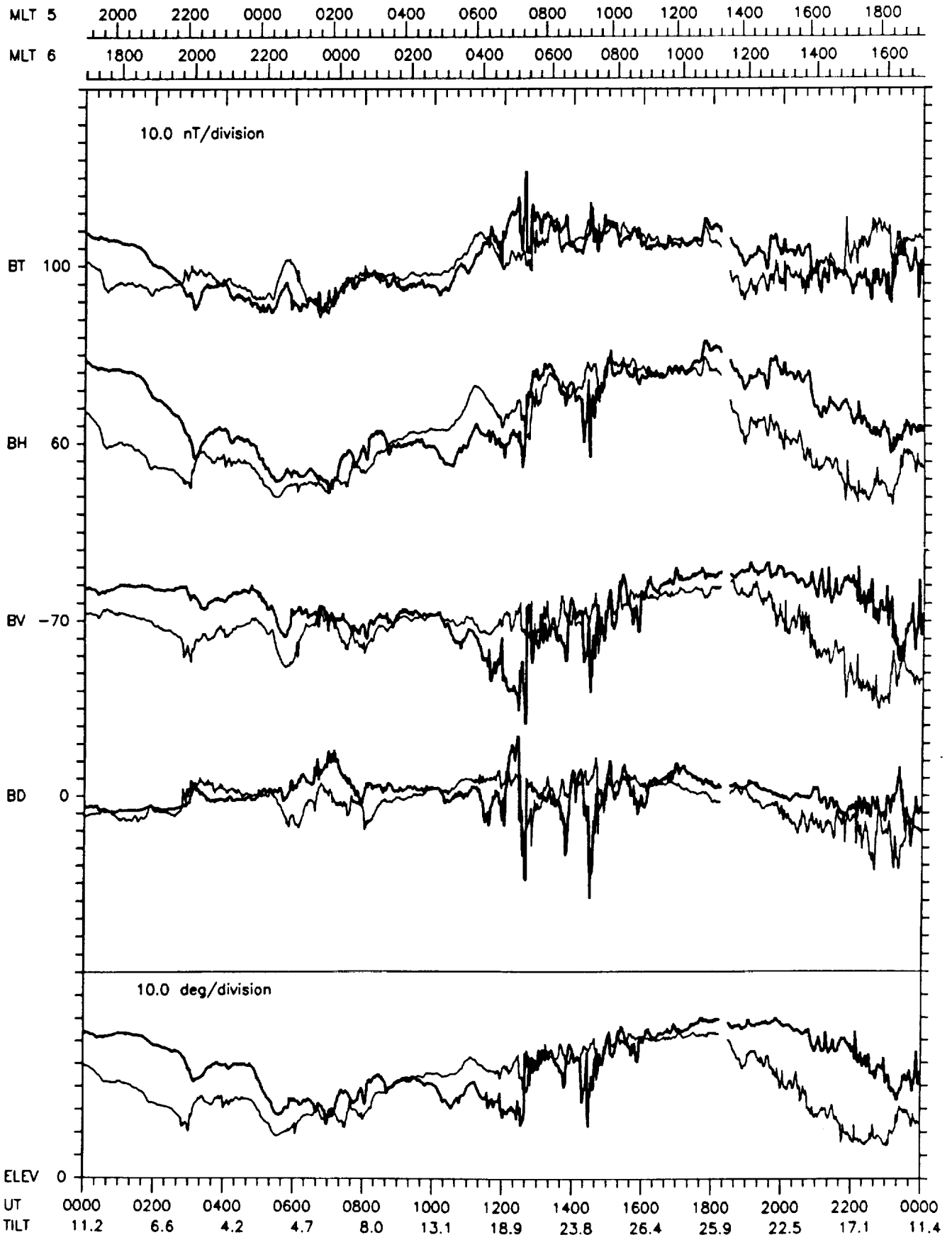
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY120 APR 30
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.8, 8.9)



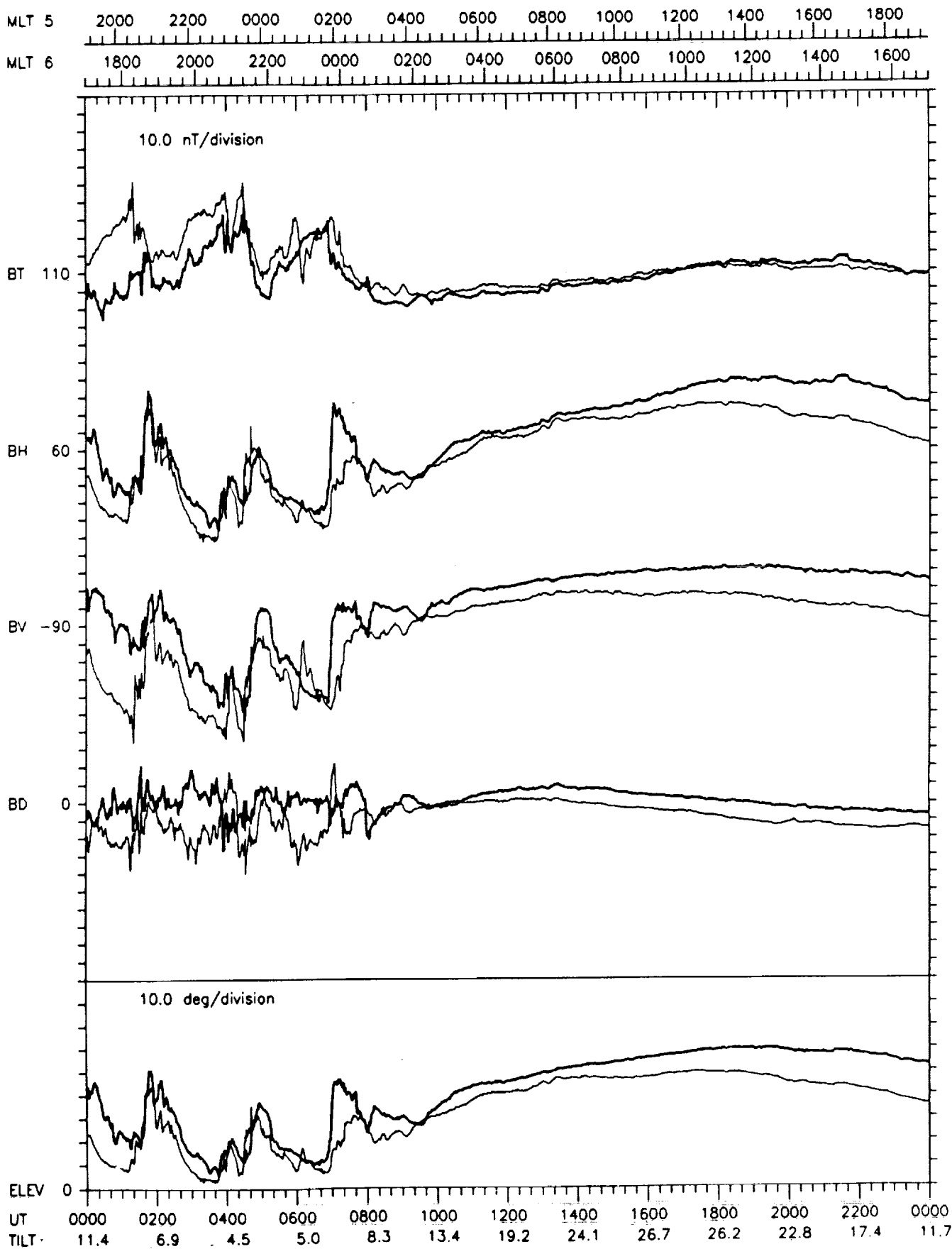
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY121 MAY 1
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.8, 8.9)



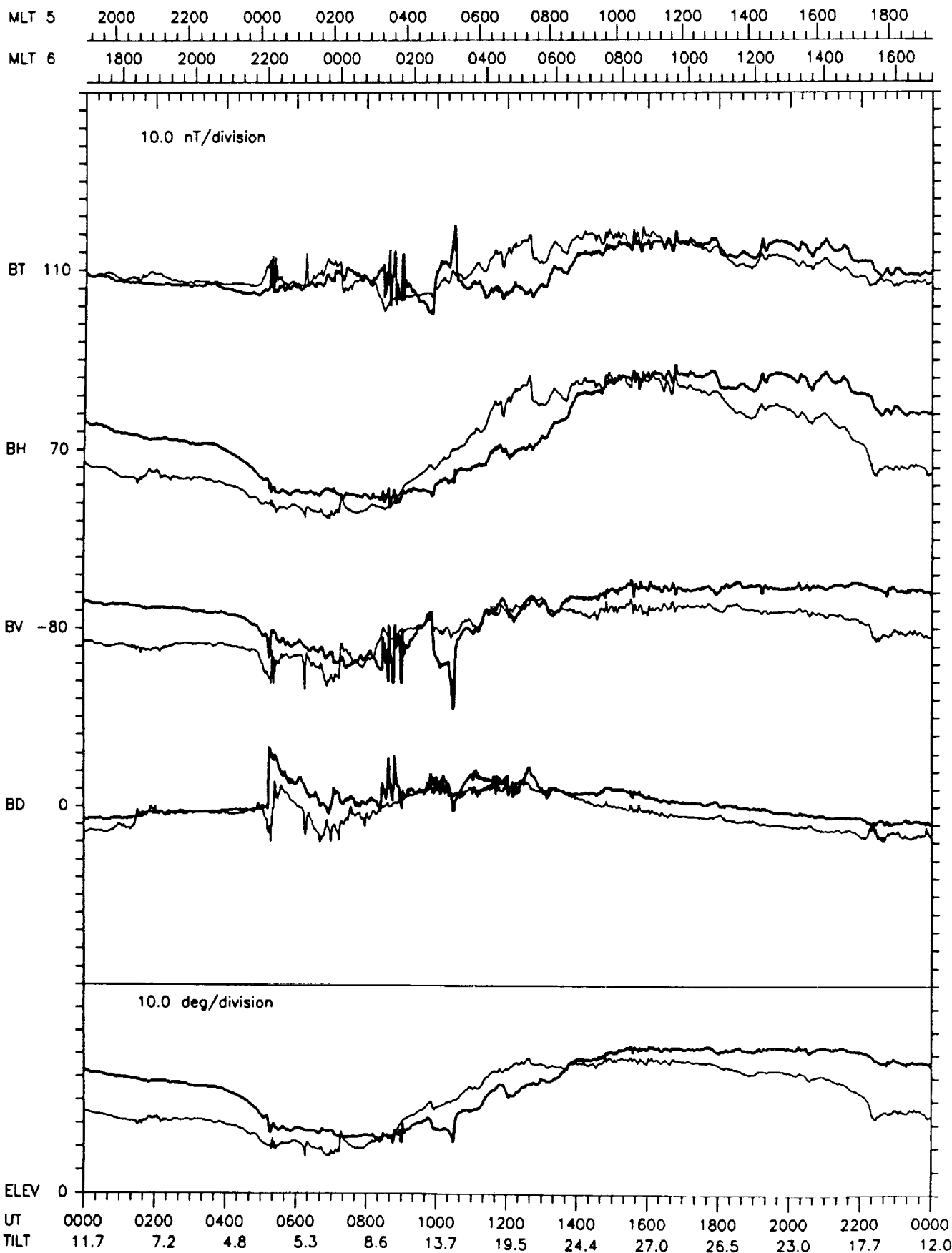
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY122 MAY 2
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.8, 8.9)



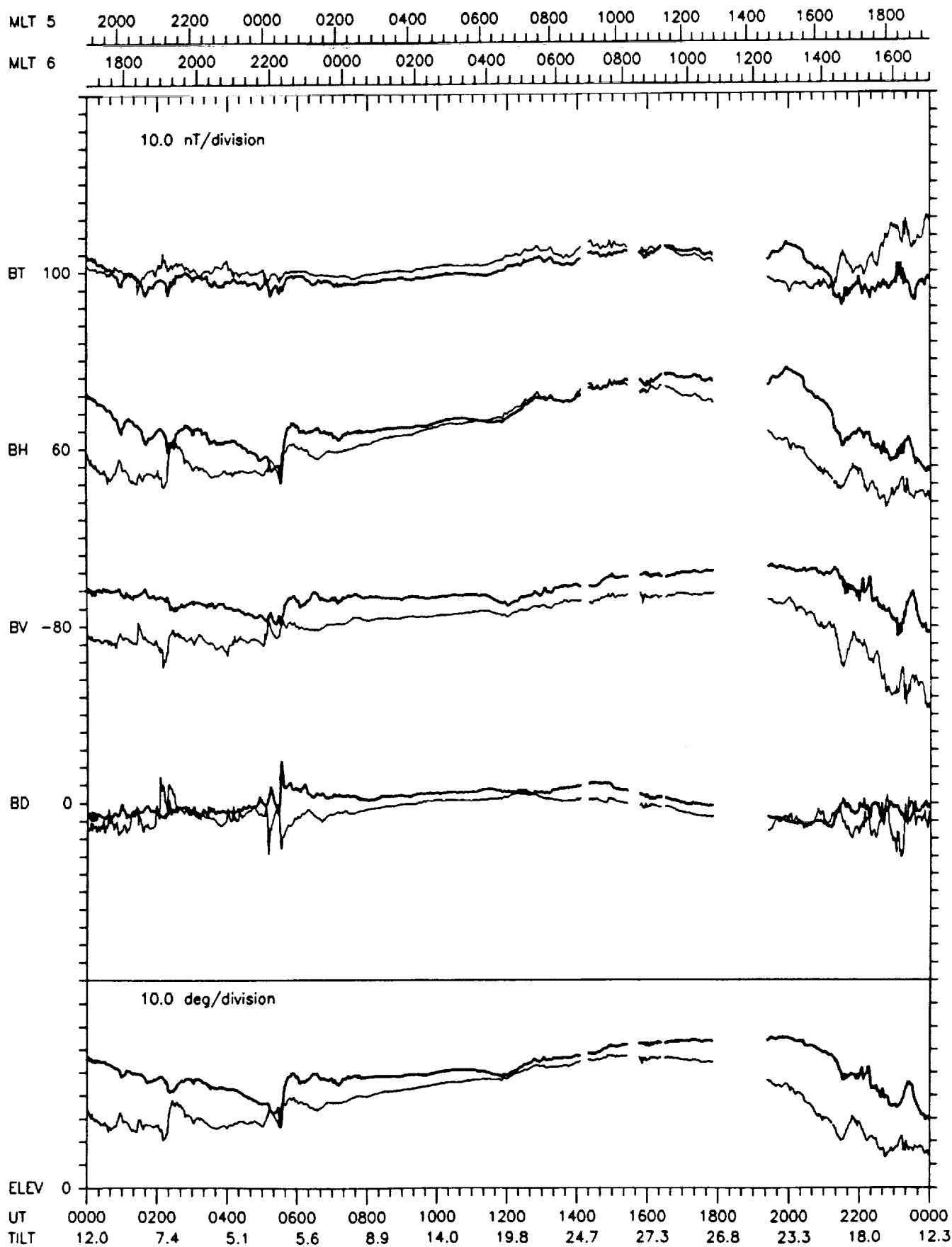
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY123 MAY 3
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.8, 8.9)



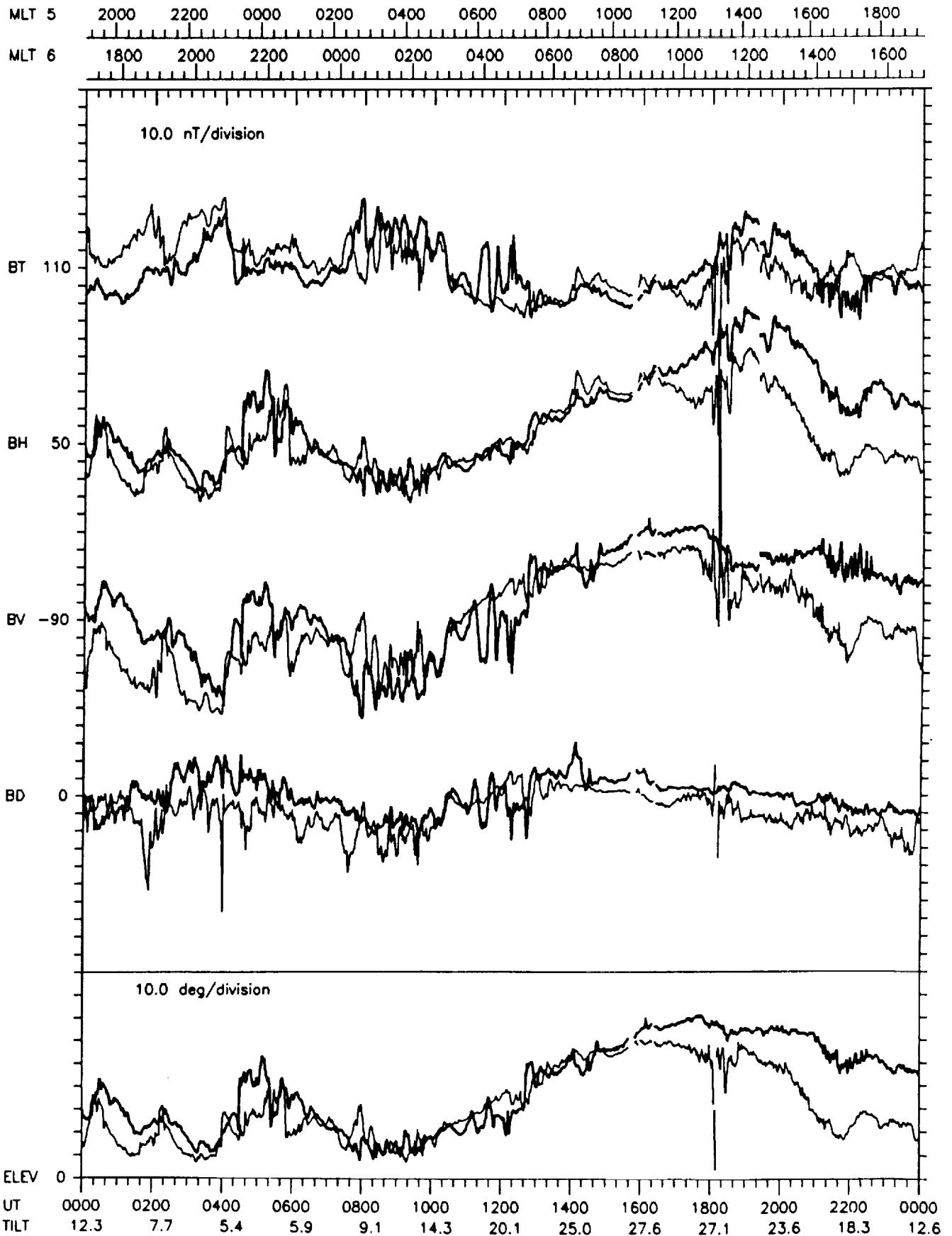
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY124 MAY 4
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.8, 8.9)



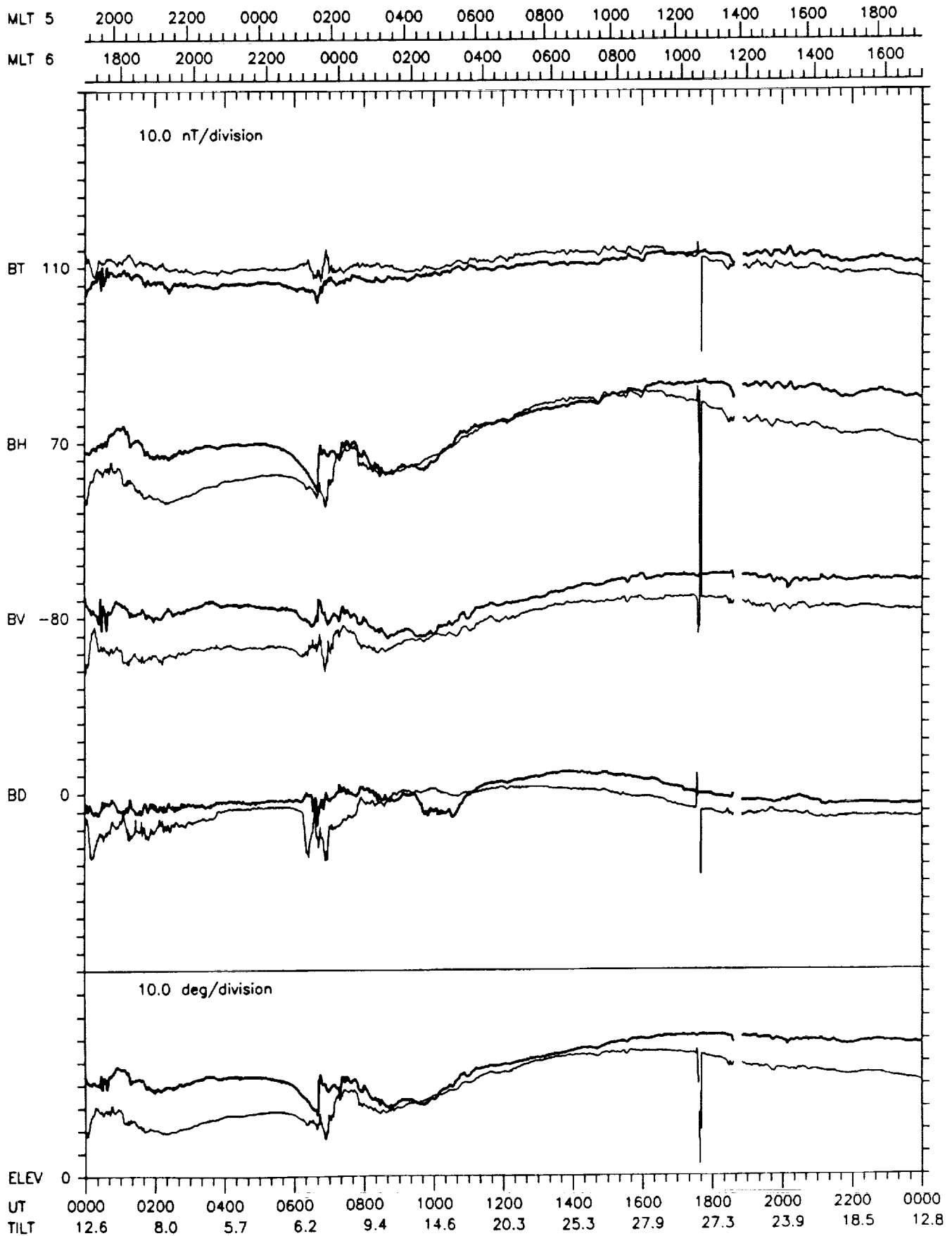
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY125 MAY 5
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.9, 8.9)



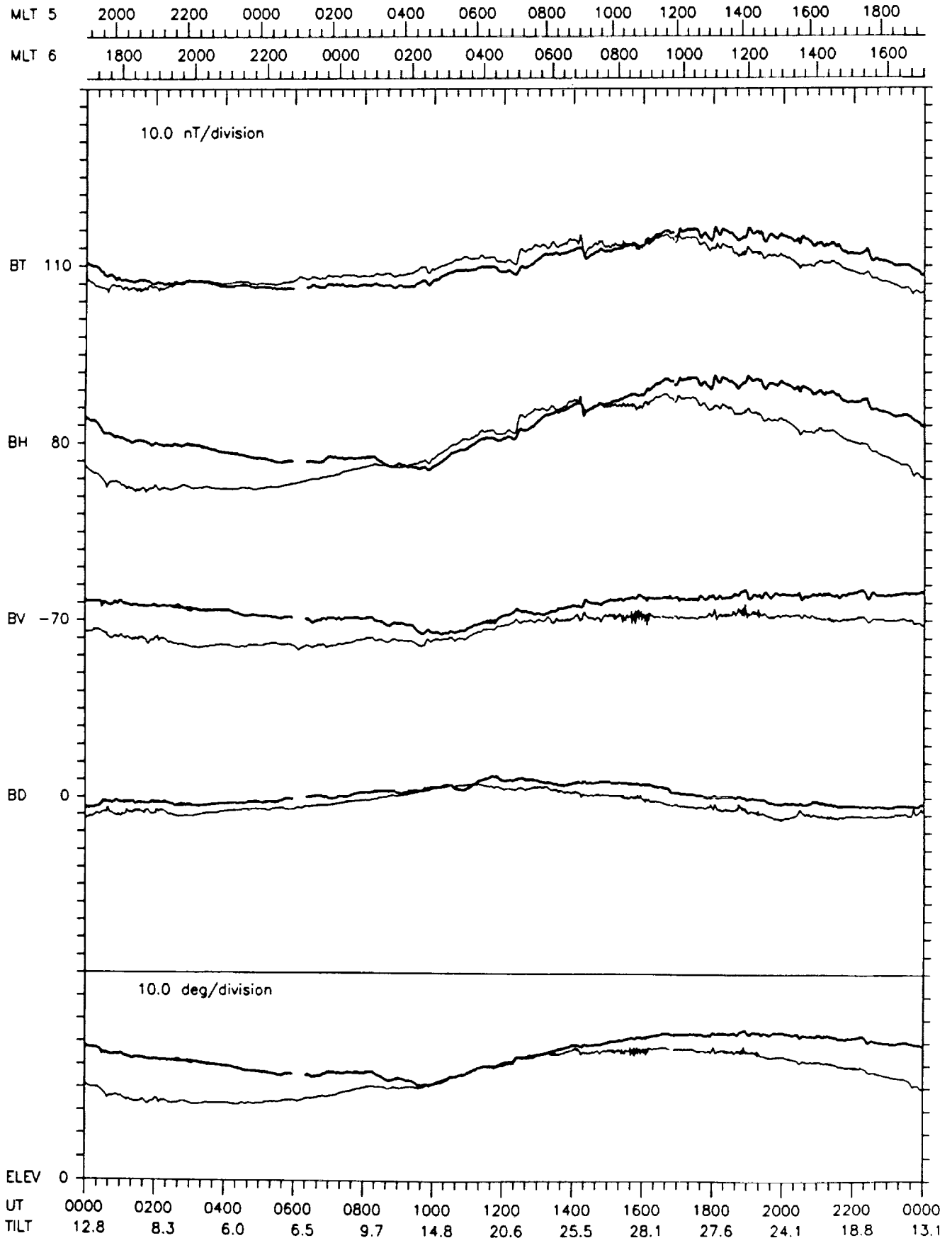
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY126 MAY 6
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.9, 8.9)



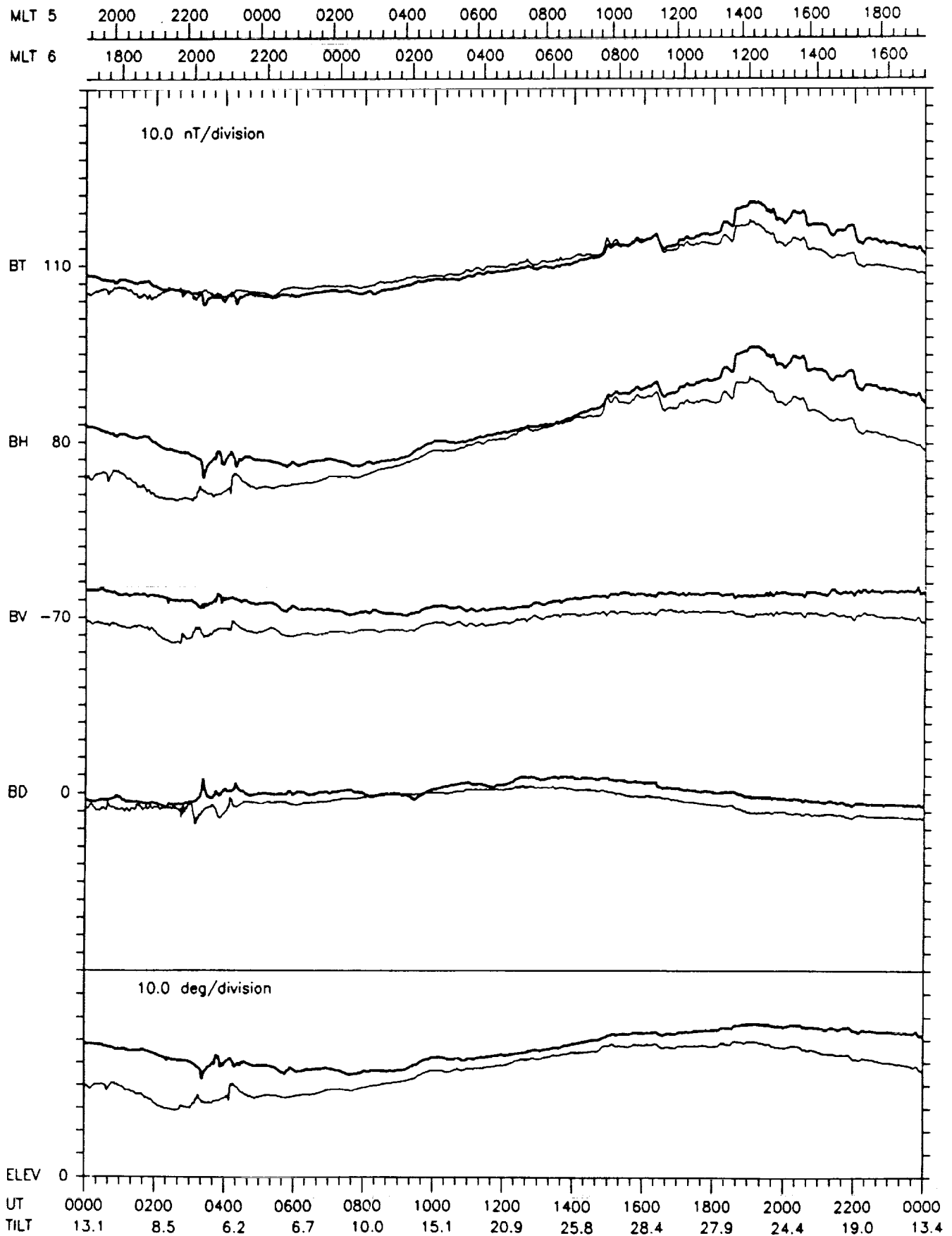
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY127 MAY 7
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.9, 8.9)



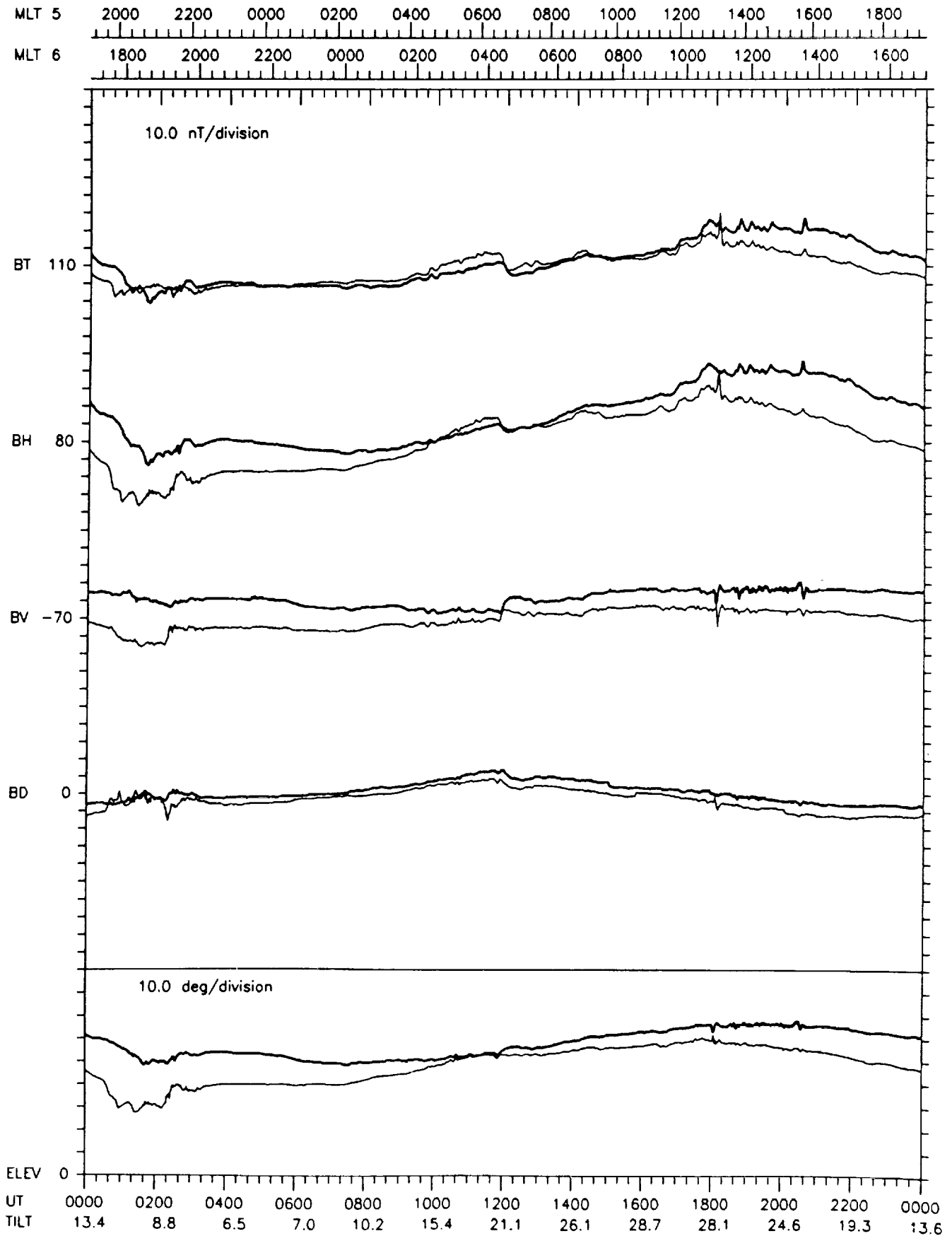
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY128 MAY 8
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.9, 8.9)



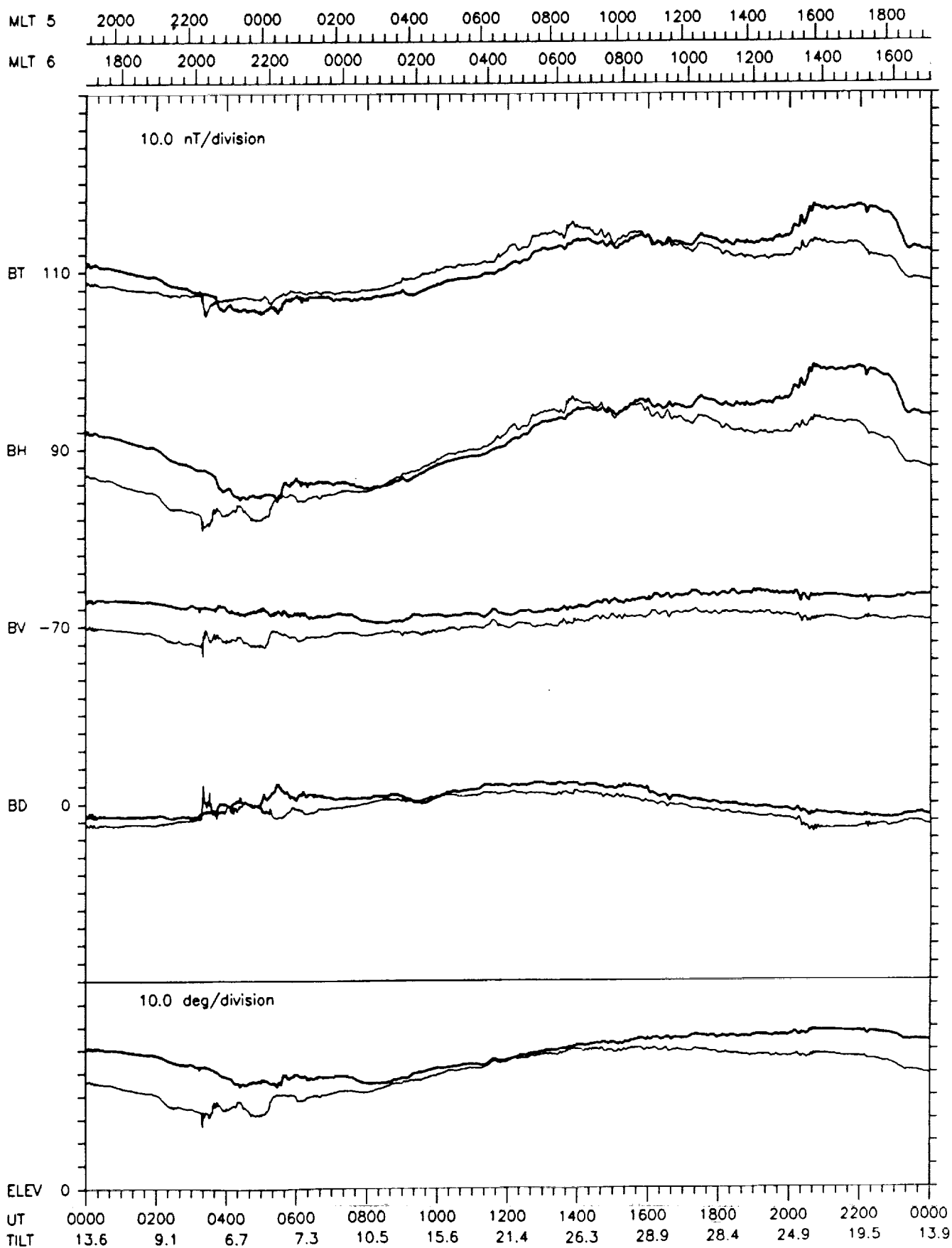
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY129 MAY 9
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.9, 8.9)



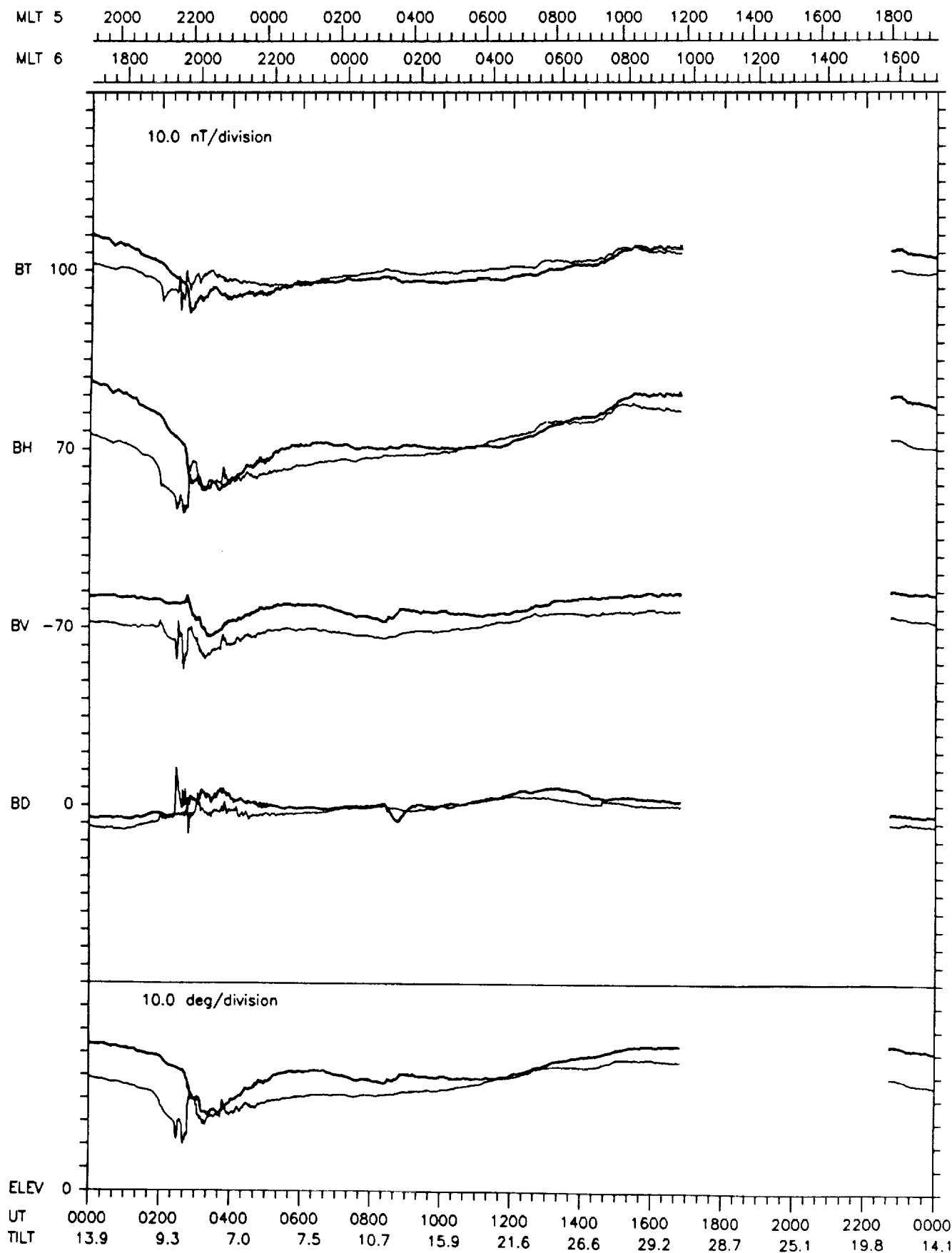
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY130 MAY 10
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.9, 8.9)



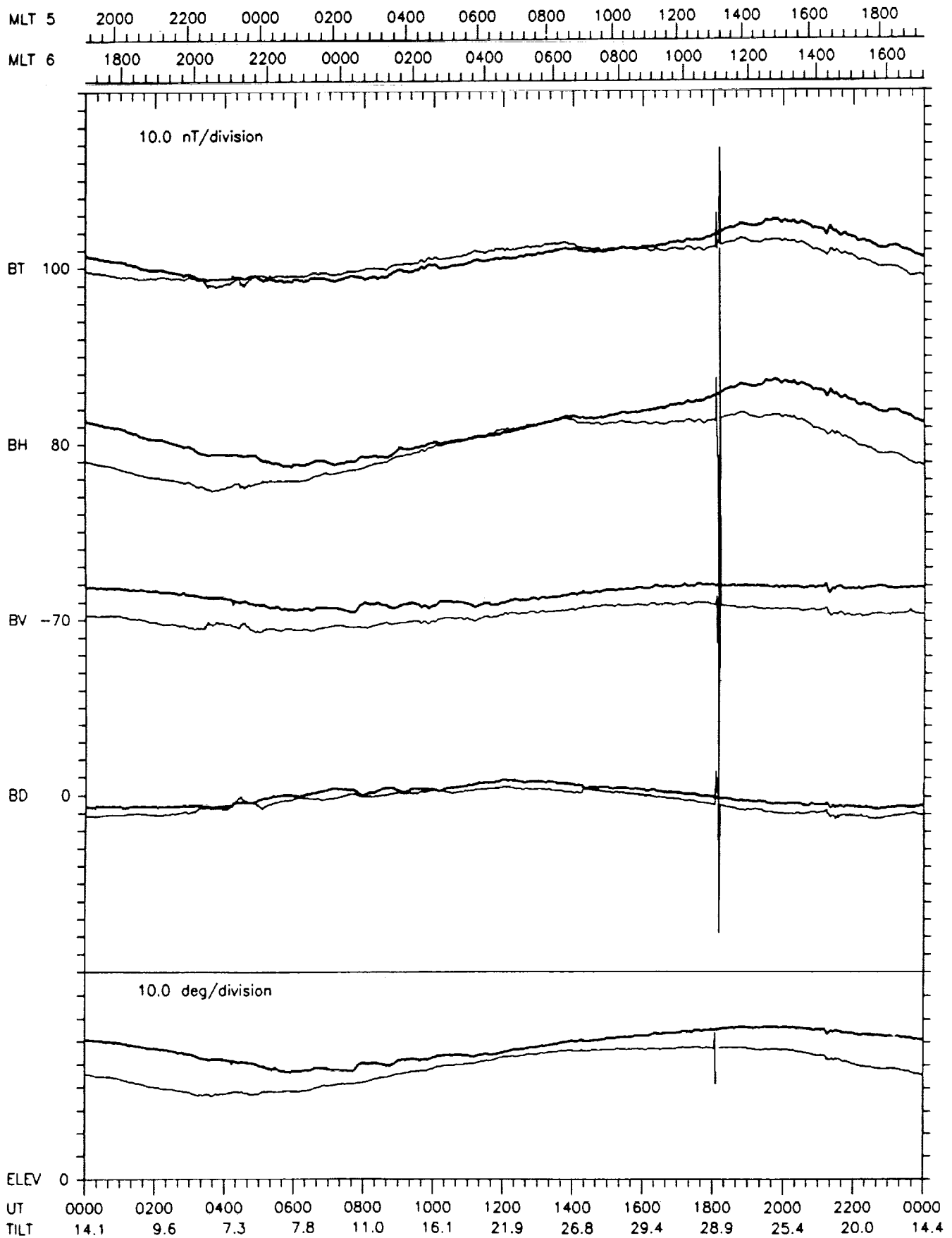
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY131 MAY 11
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.9, 8.9)



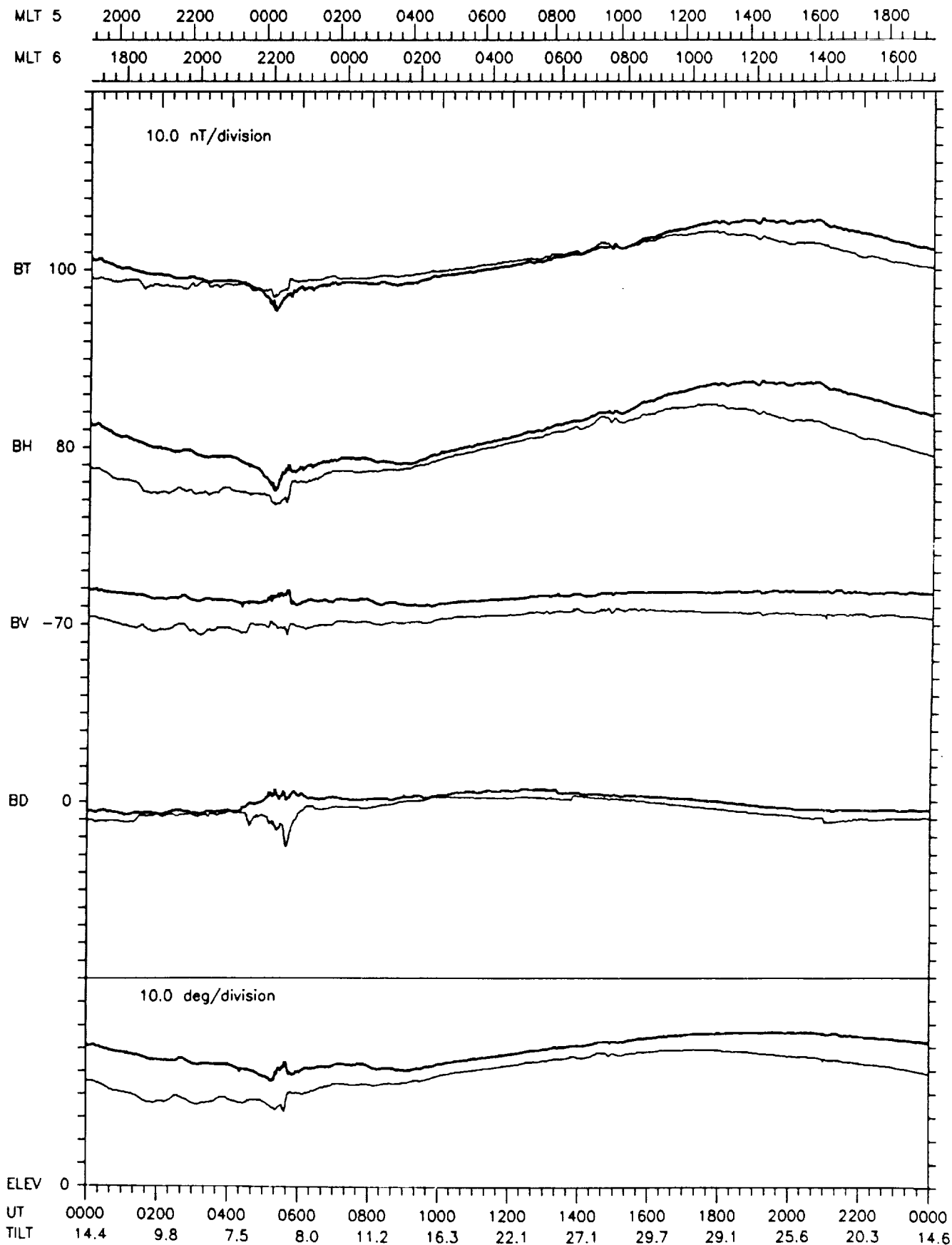
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY132 MAY 12
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-107.9, 8.9)



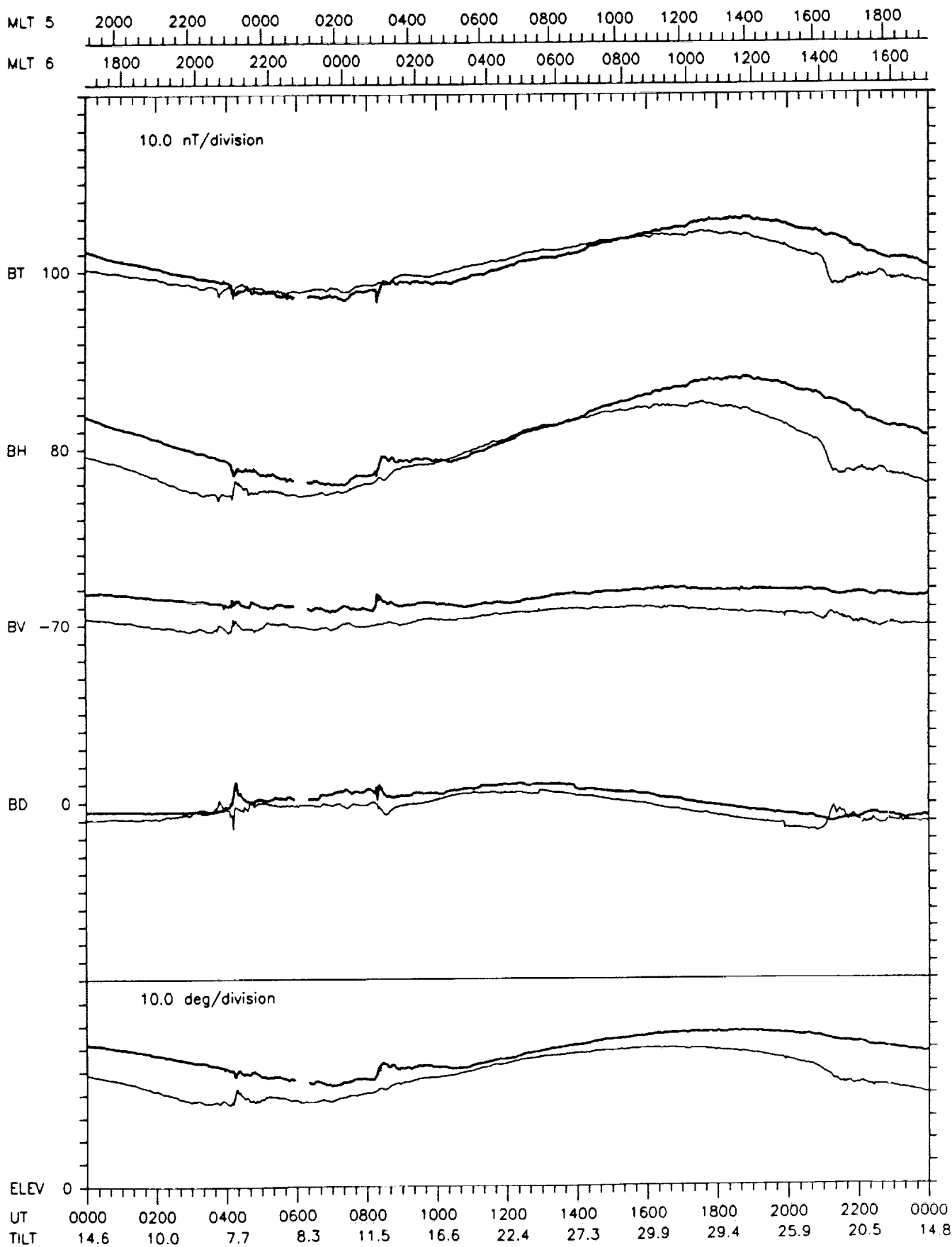
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY133 MAY 13
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.0, 8.9)



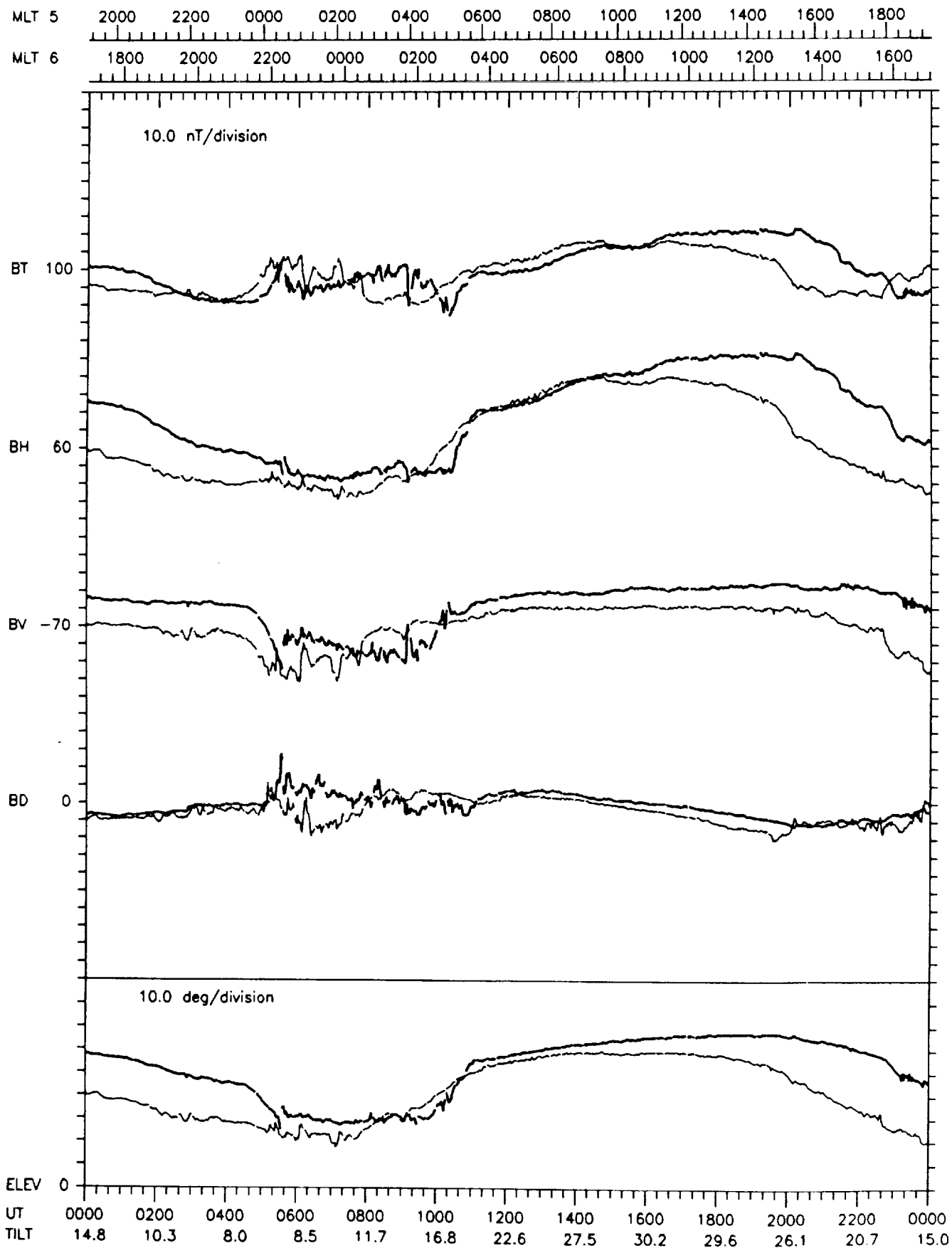
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY134 MAY 14
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.0, 8.9)



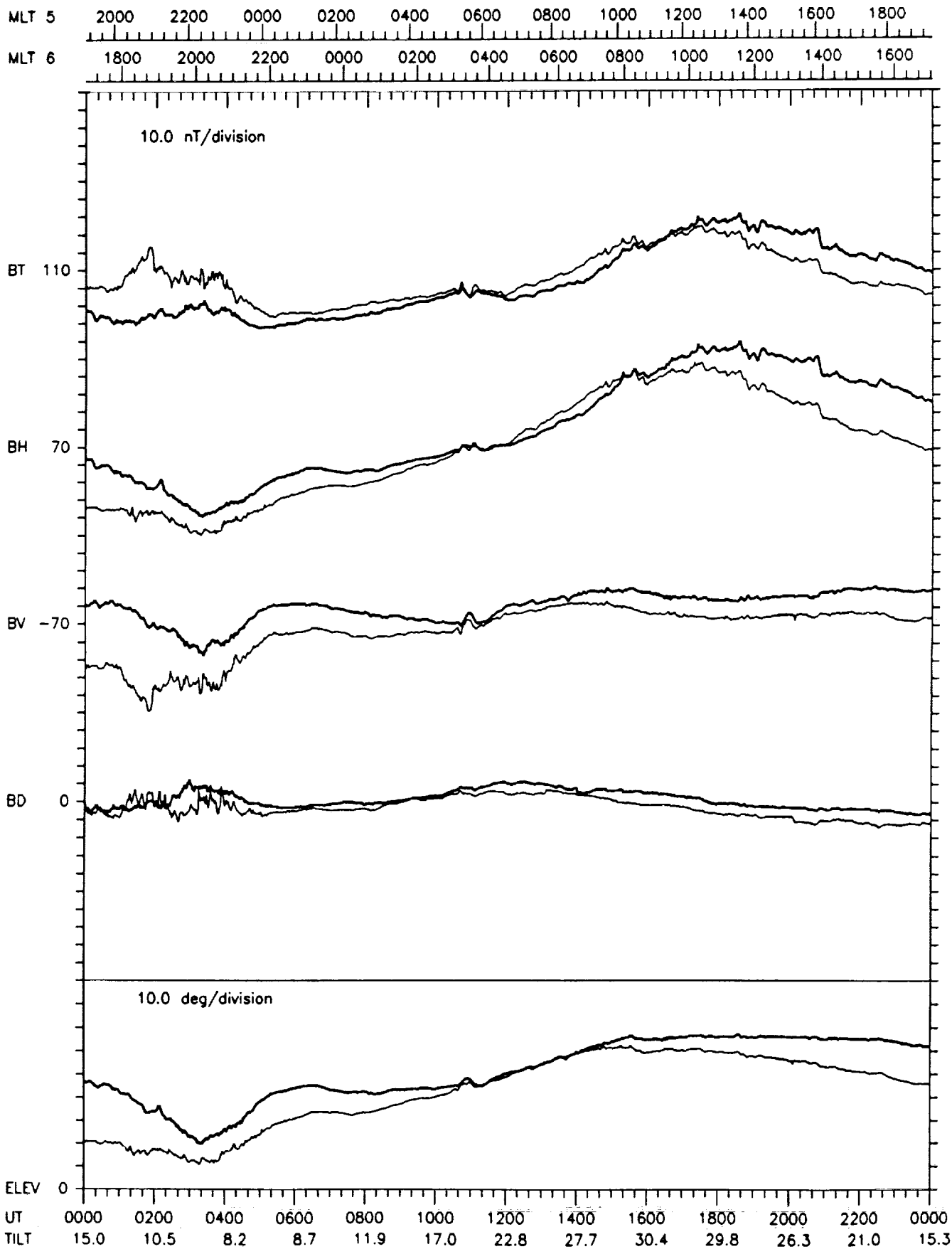
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY135 MAY 15
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.0, 8.9)



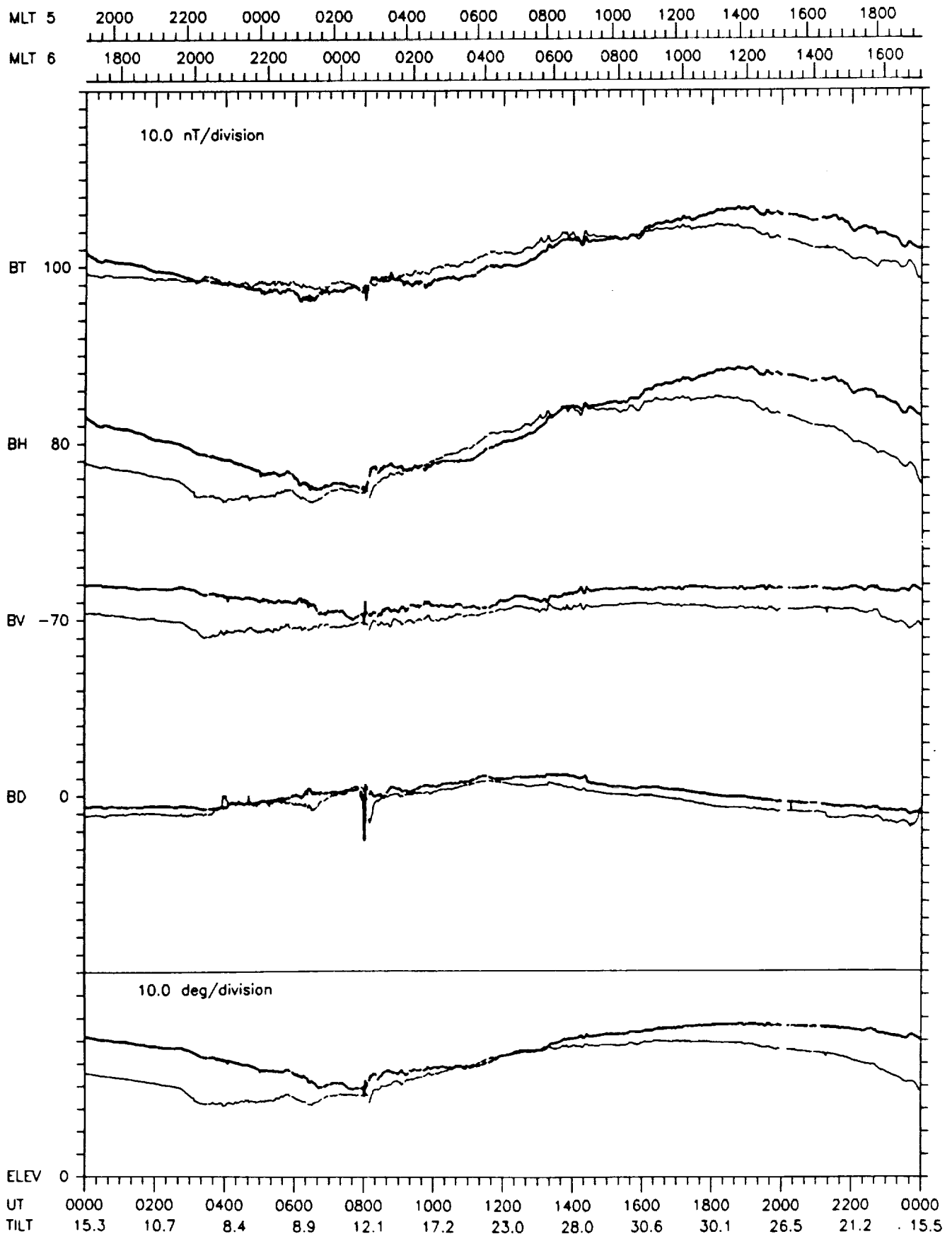
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY136 MAY 16
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.0, 8.9)



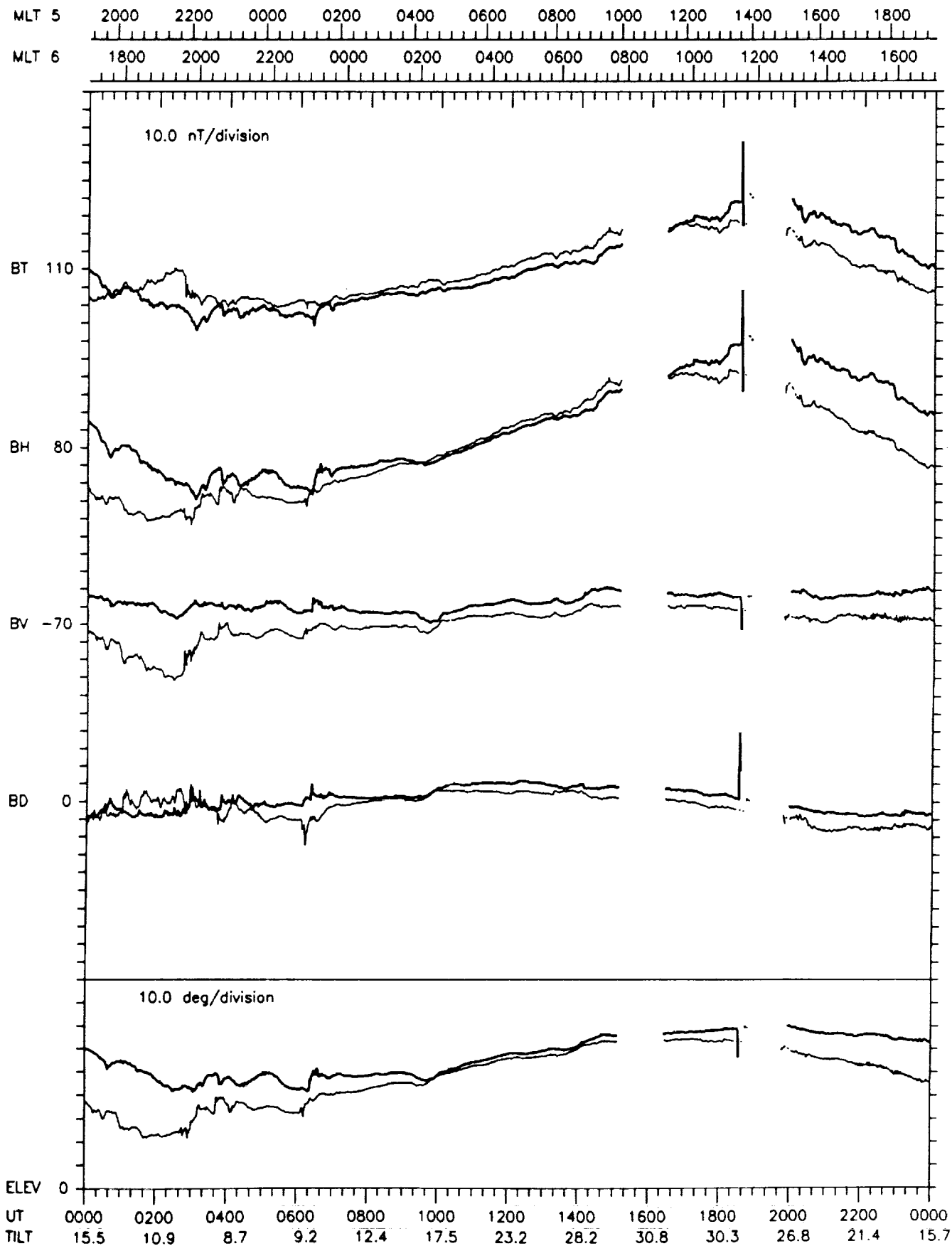
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY137 MAY 17
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.0, 8.9)



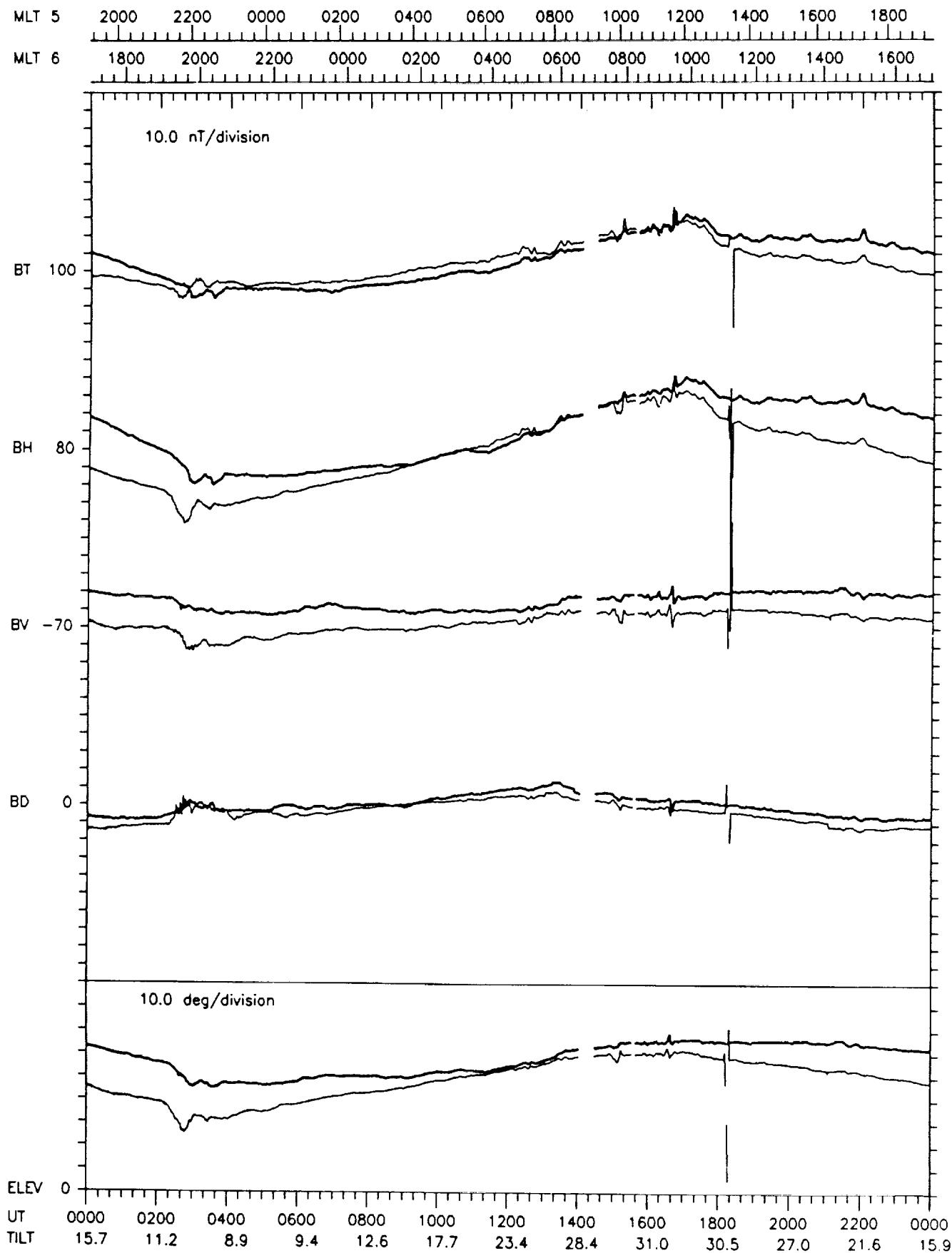
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY138 MAY 18
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.0, 8.9)



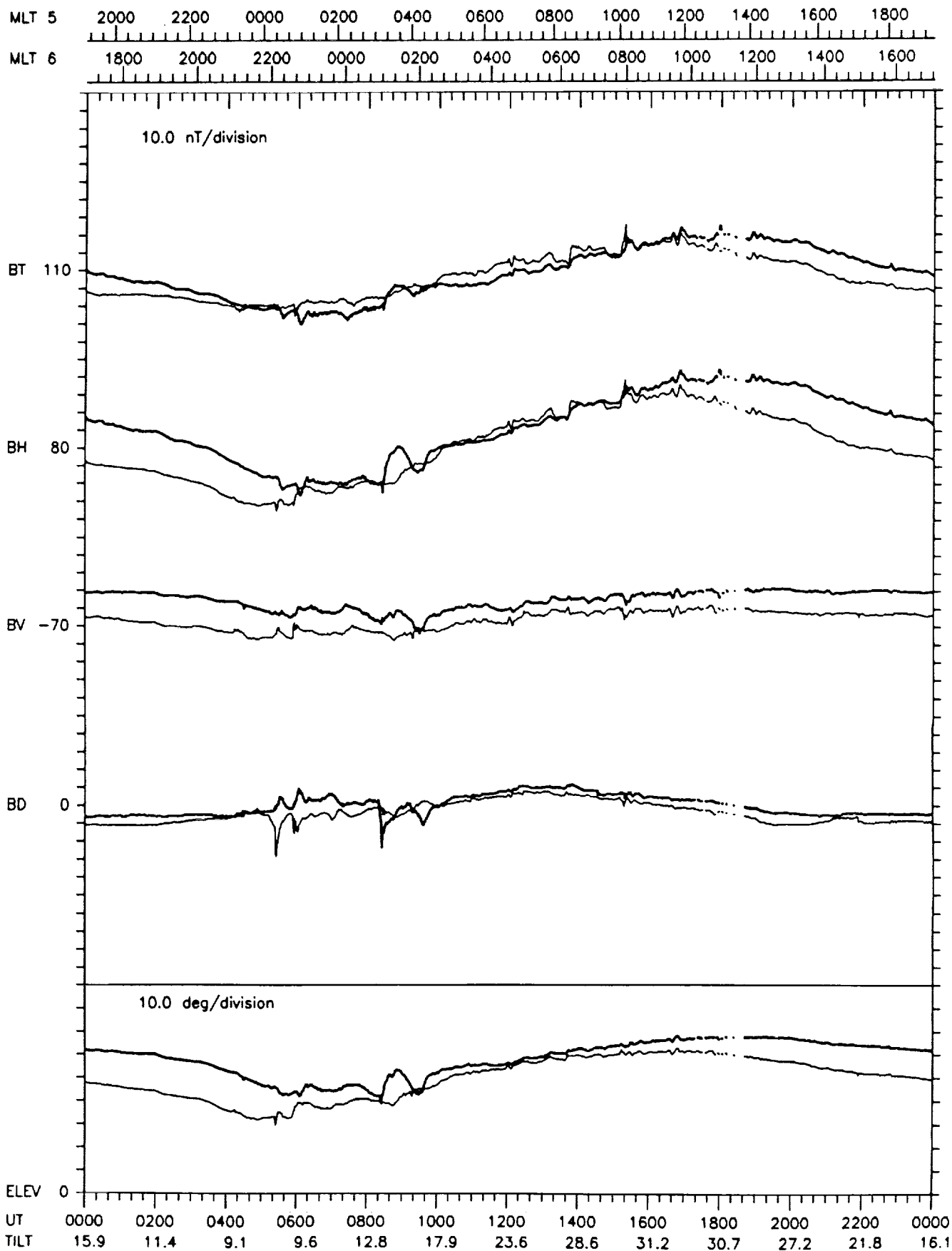
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY139 MAY 19
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.0, 8.9)



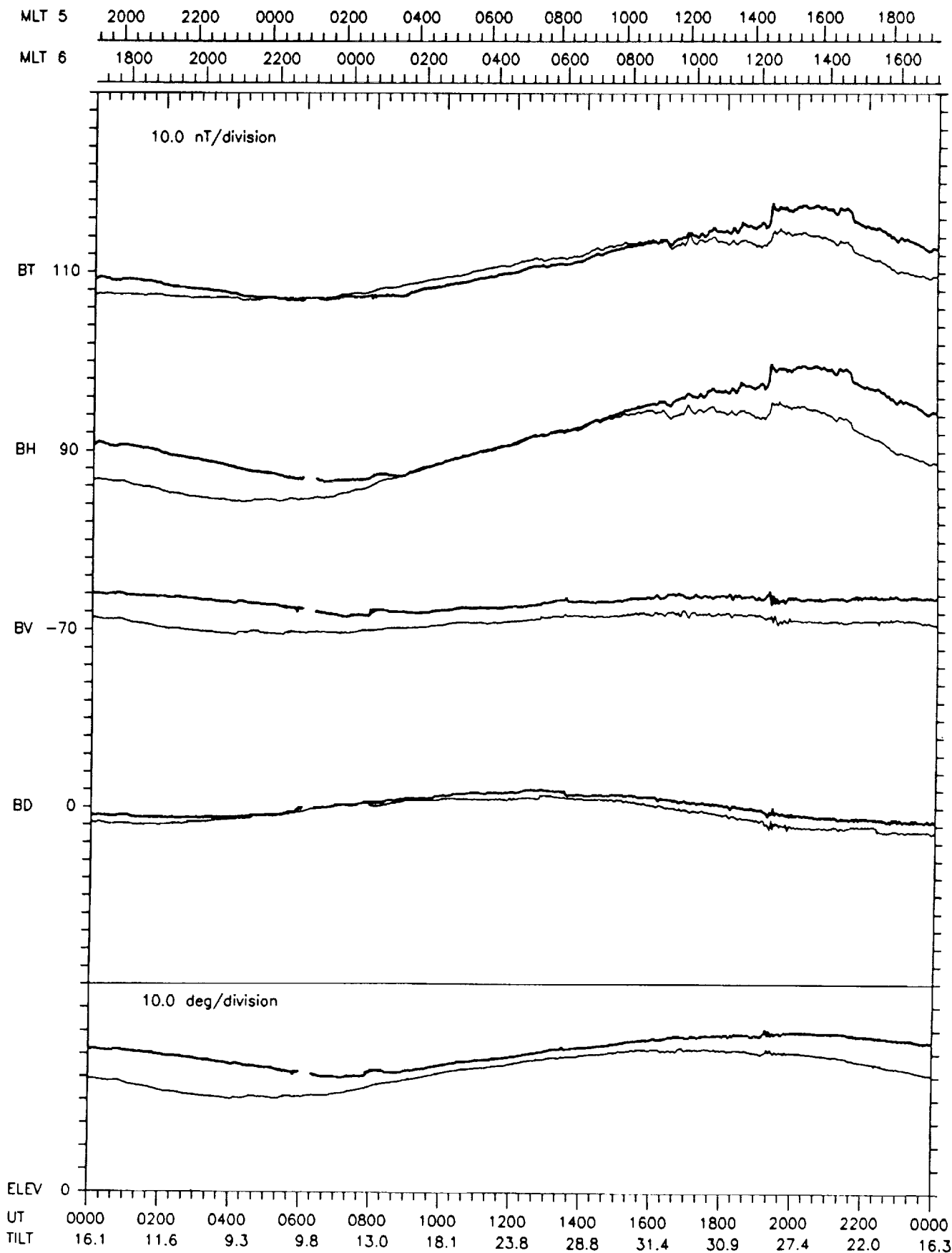
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY140 MAY 20
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.0, 8.9)



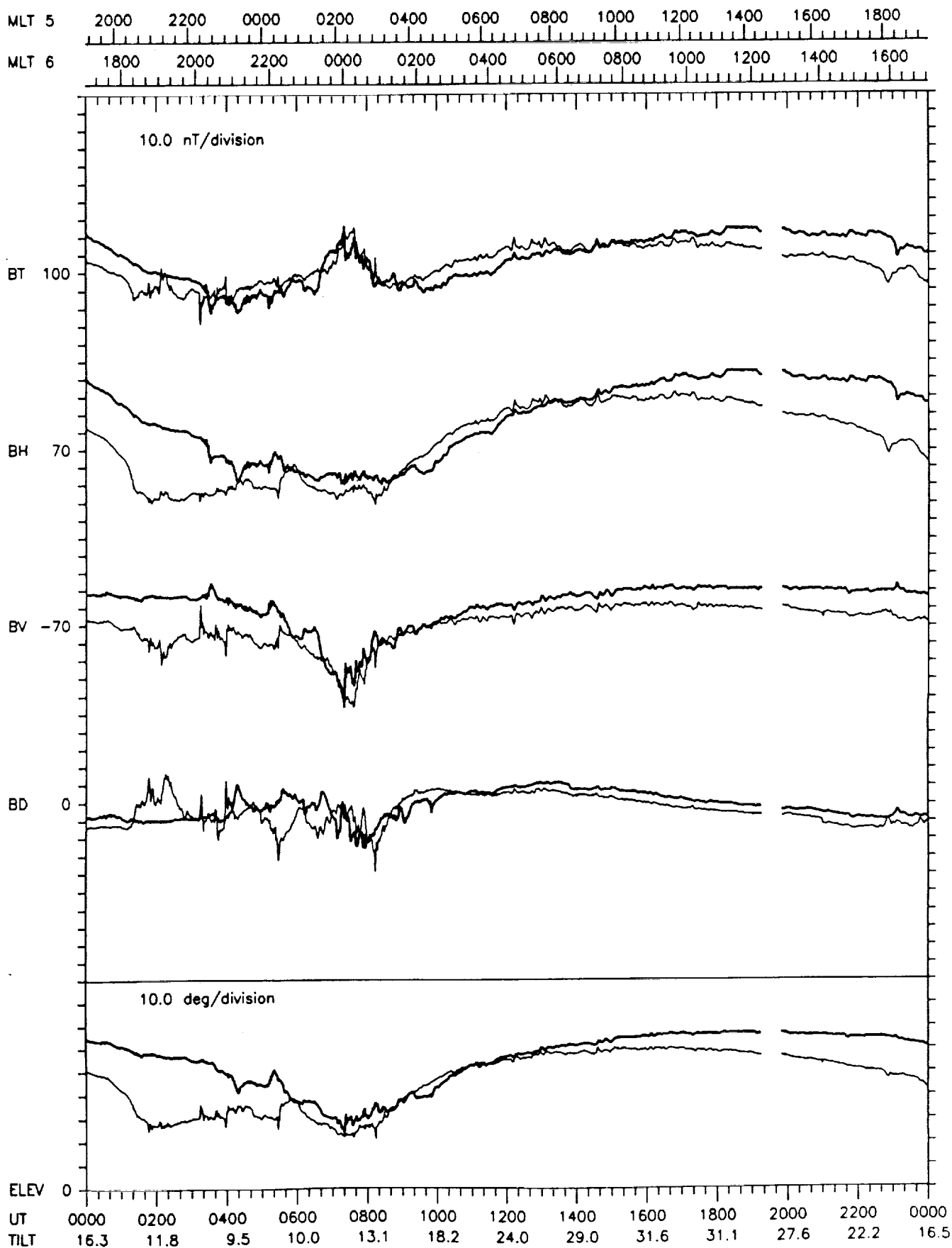
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY141 MAY 21
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.0, 8.9)



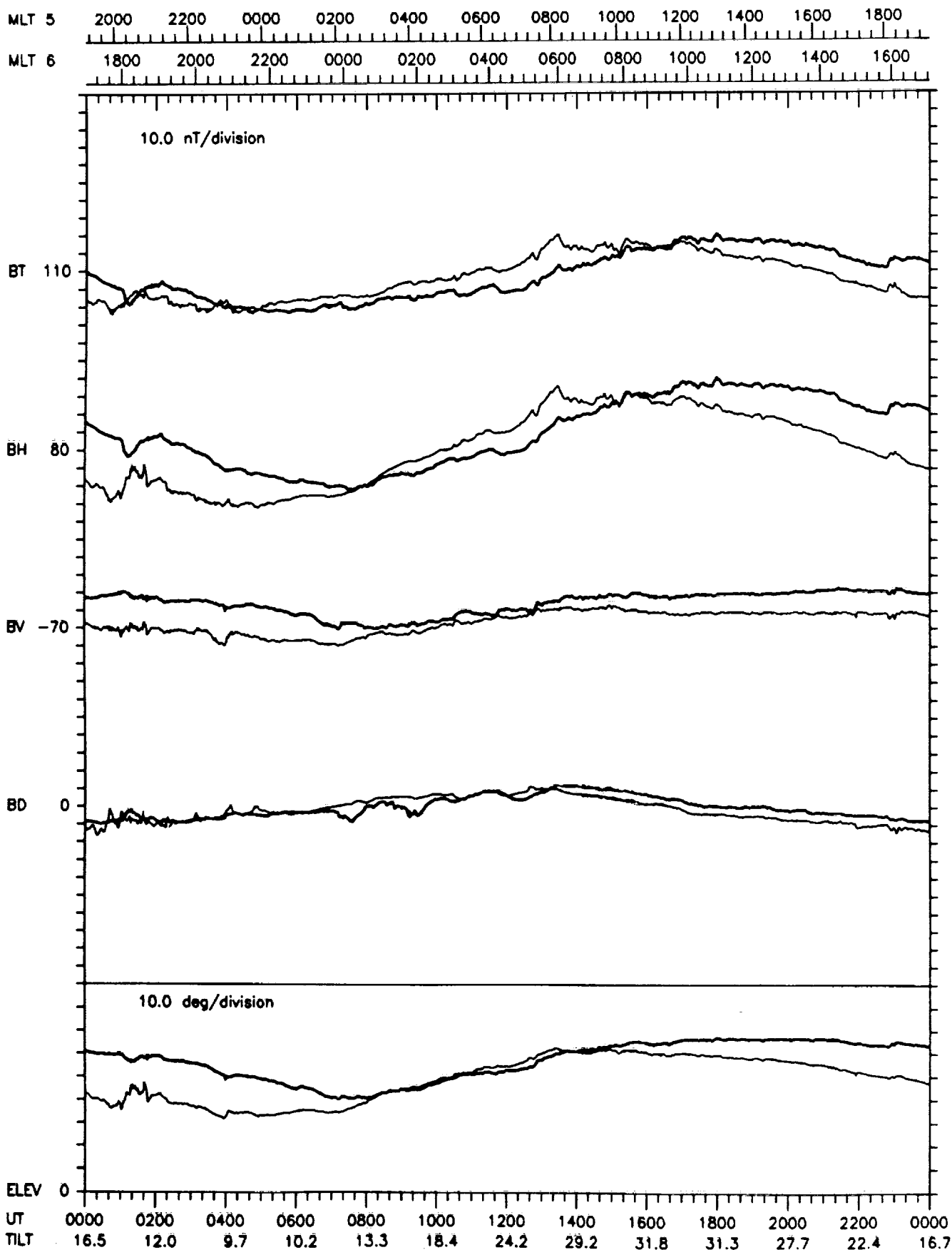
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY142 MAY 22
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.1, 8.9)



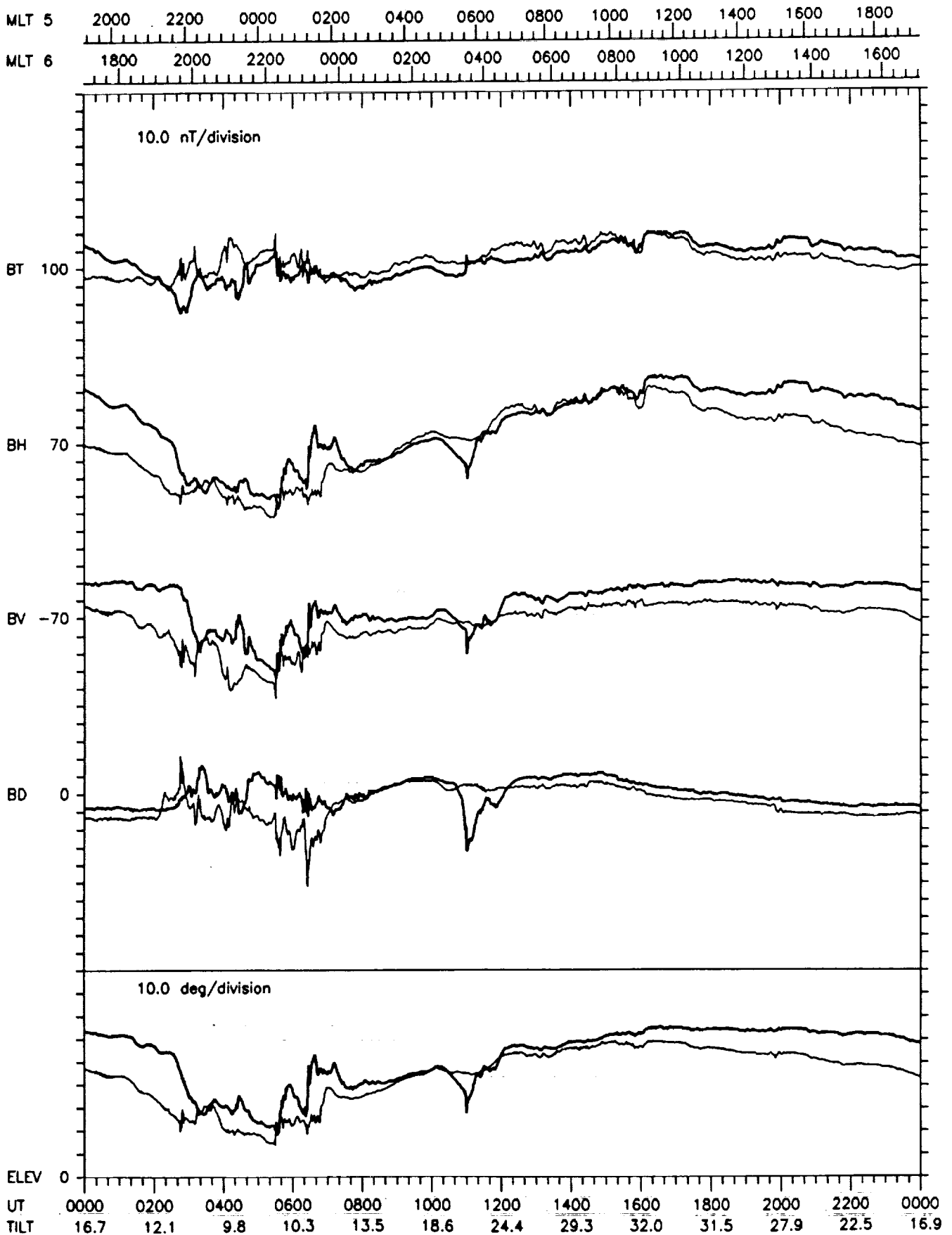
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY143 MAY 23
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.1, 8.9)



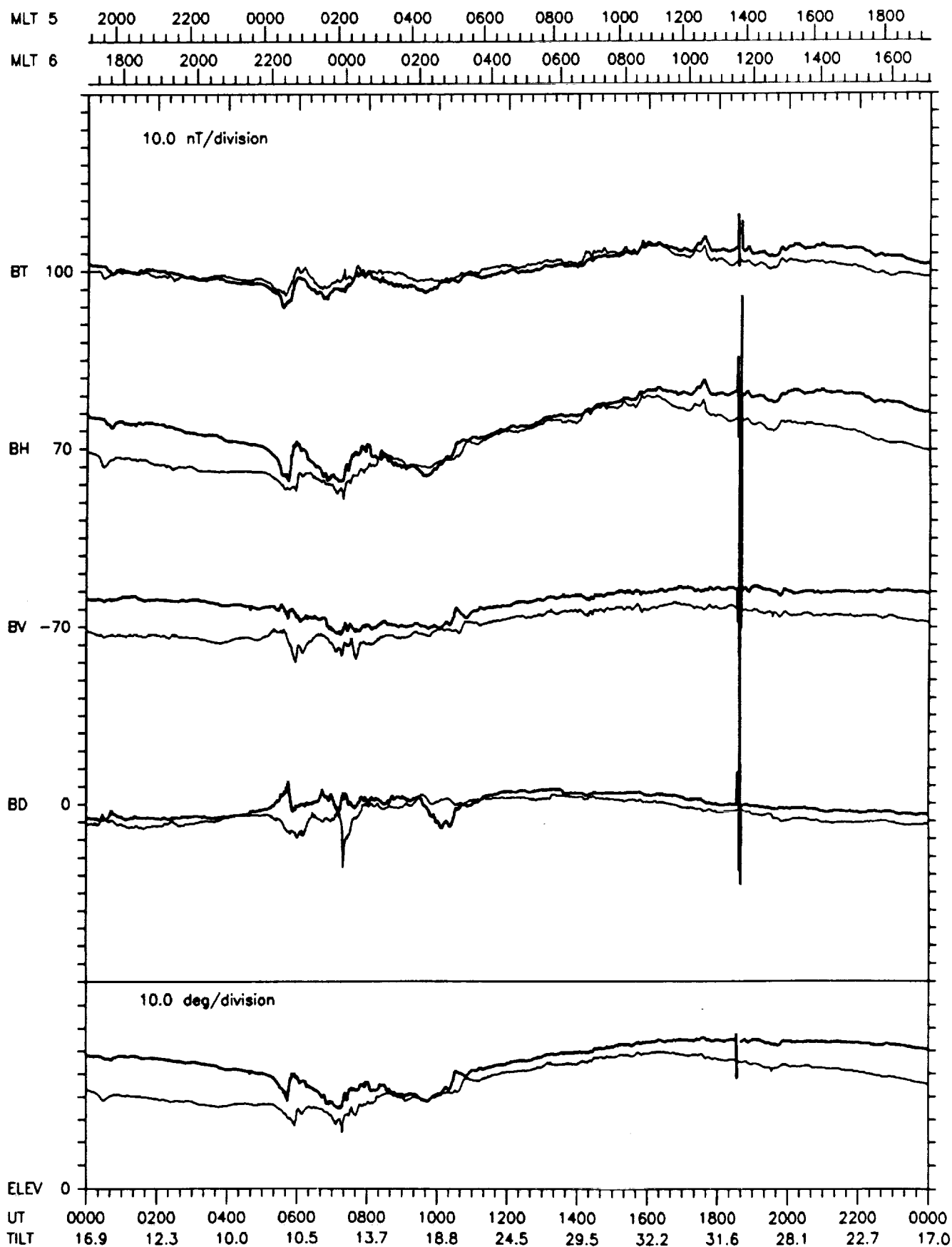
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY144 MAY 24
 GEOLON, MAGLAT = 5(-75.4, 11.2) 6(-108.1, 8.9)



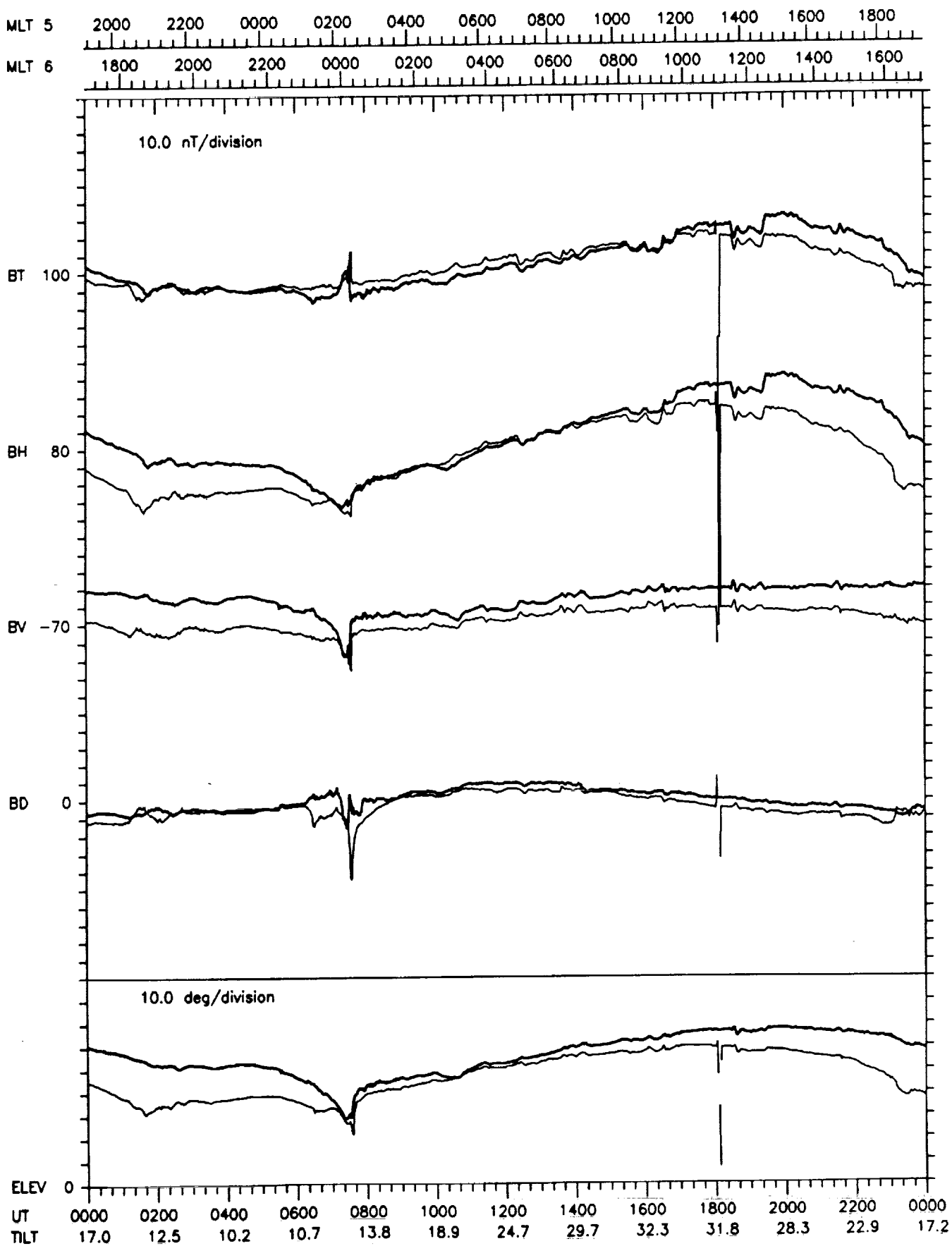
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY145 MAY 25
 GEOLON, MAGLAT = 5(-75.5, 11.2) 6(-108.1, 8.9)



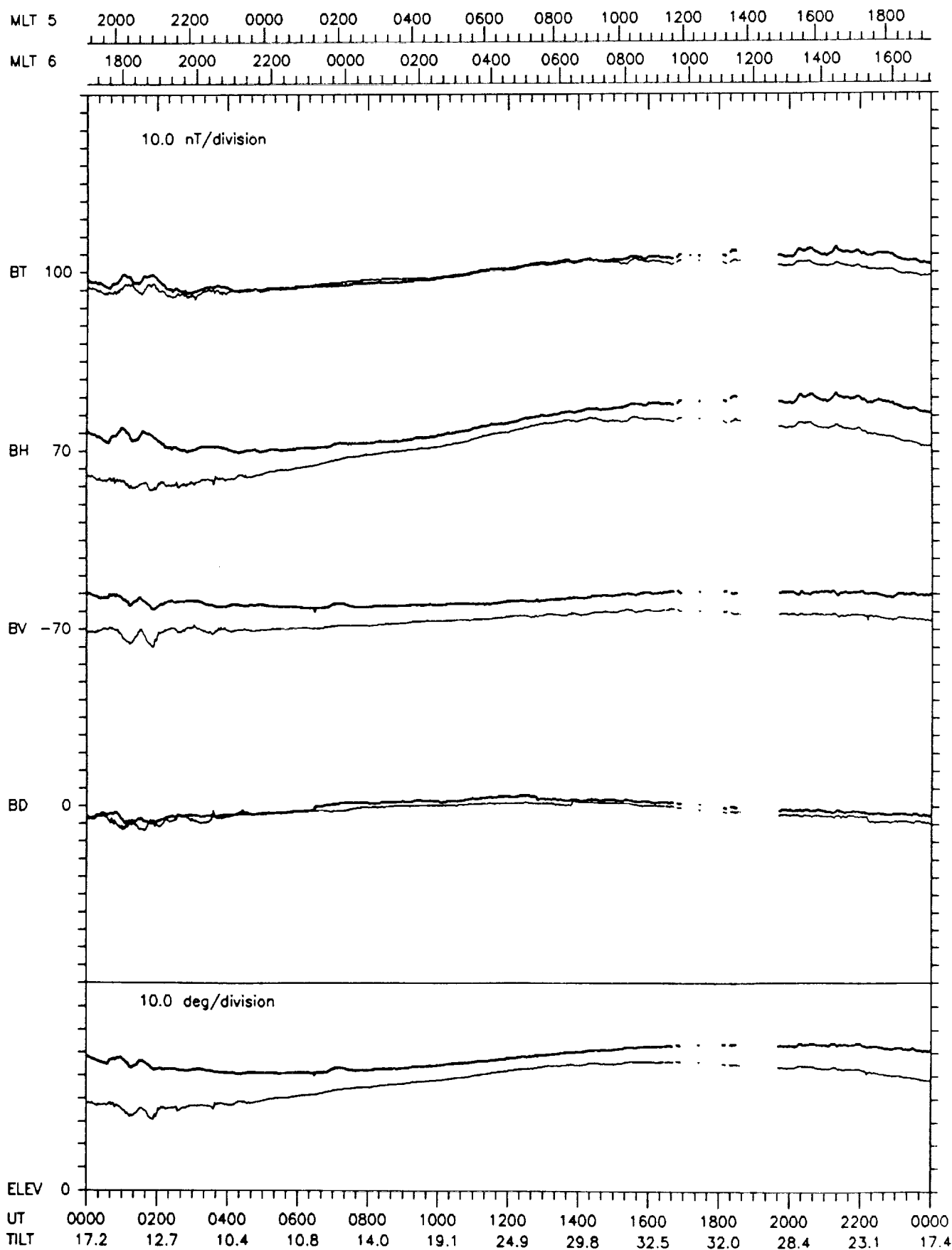
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY146 MAY 26
 GEOLON, MAGLAT = 5(-75.5, 11.2) 6(-108.1, 8.9)



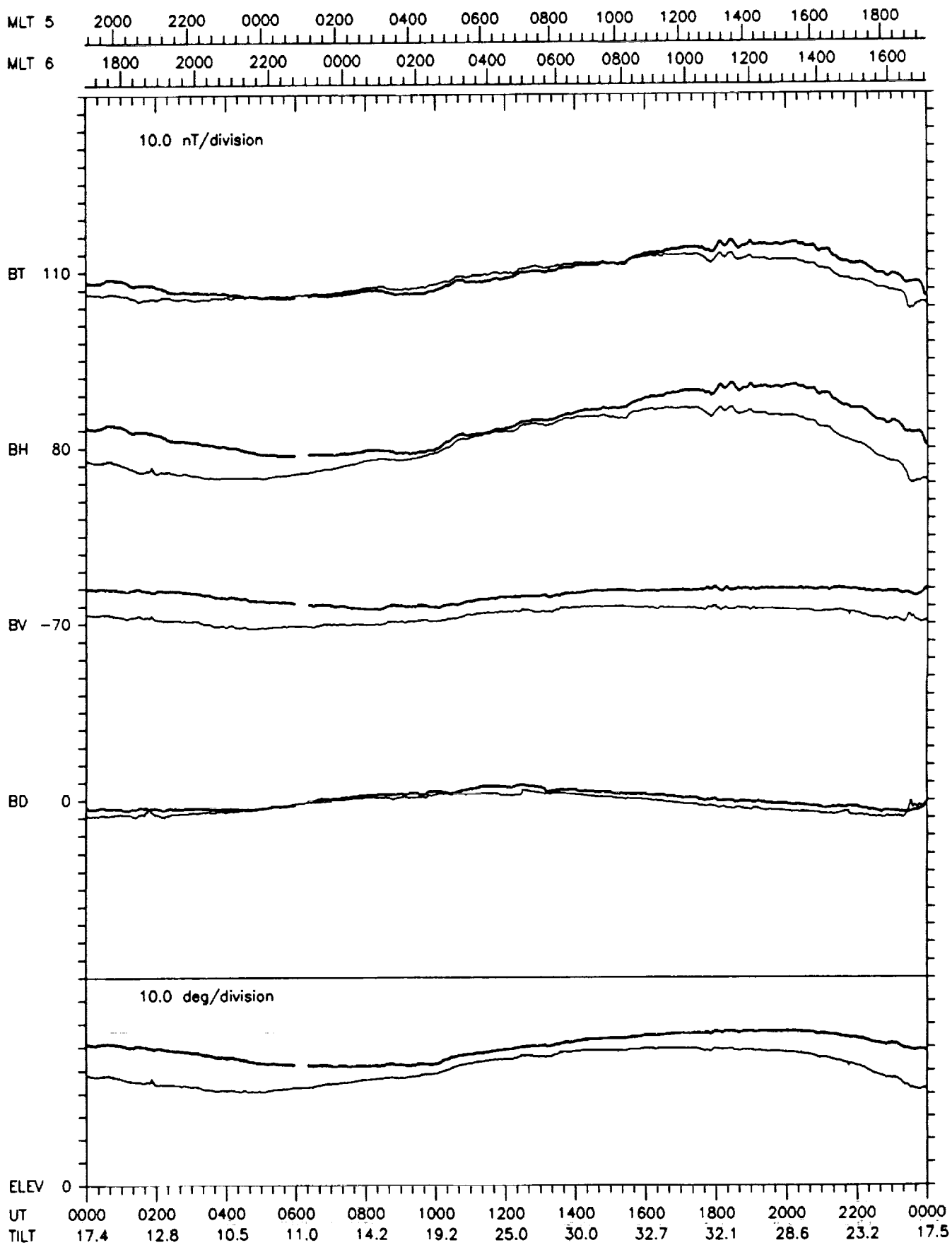
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY147 MAY 27
 GEOLON, MAGLAT = 5(-75.5, 11.2) 6(-108.1, 8.9)



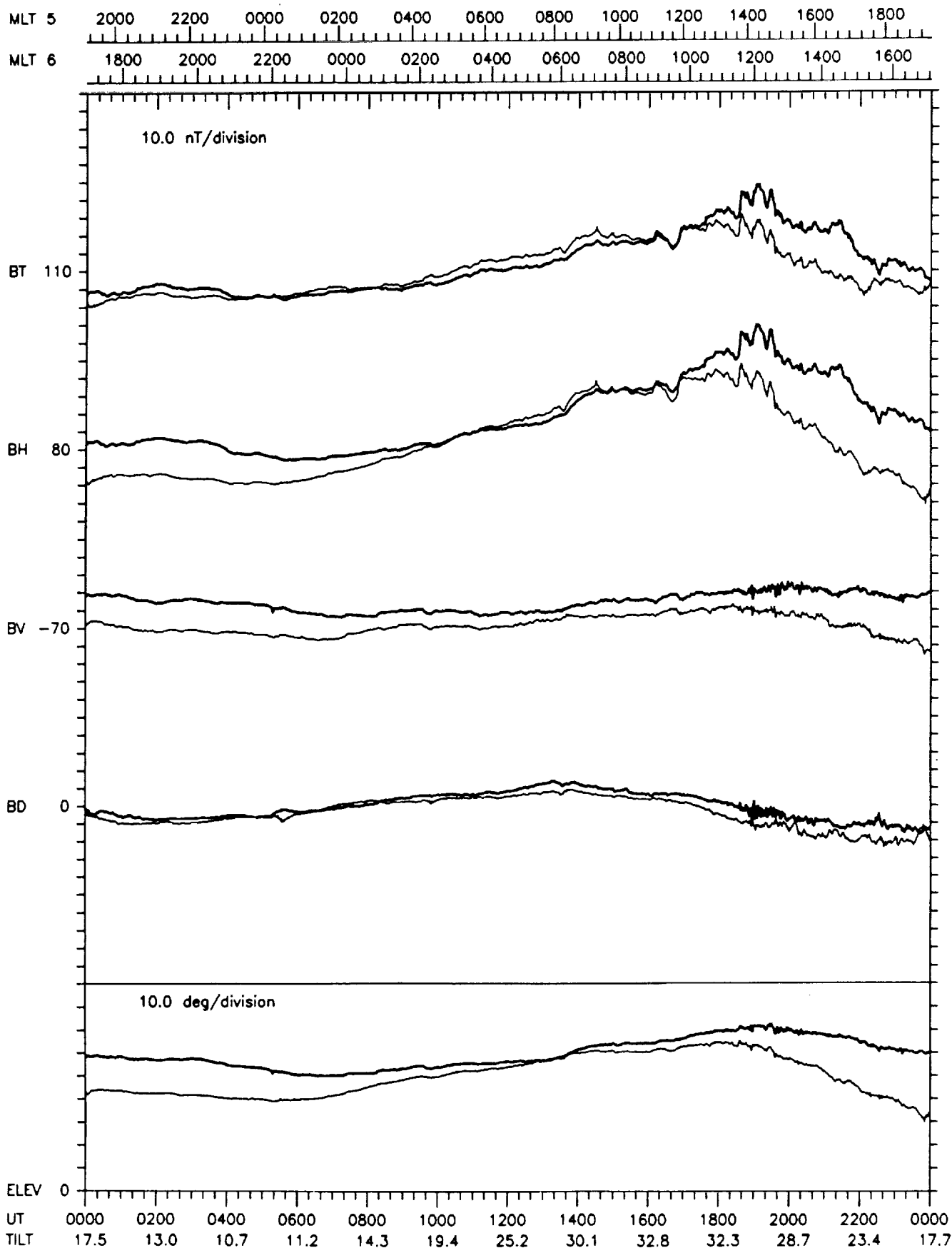
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY148 MAY 28
 GEOLON, MAGLAT = 5(-75.7, 11.2) 6(-108.1, 8.9)



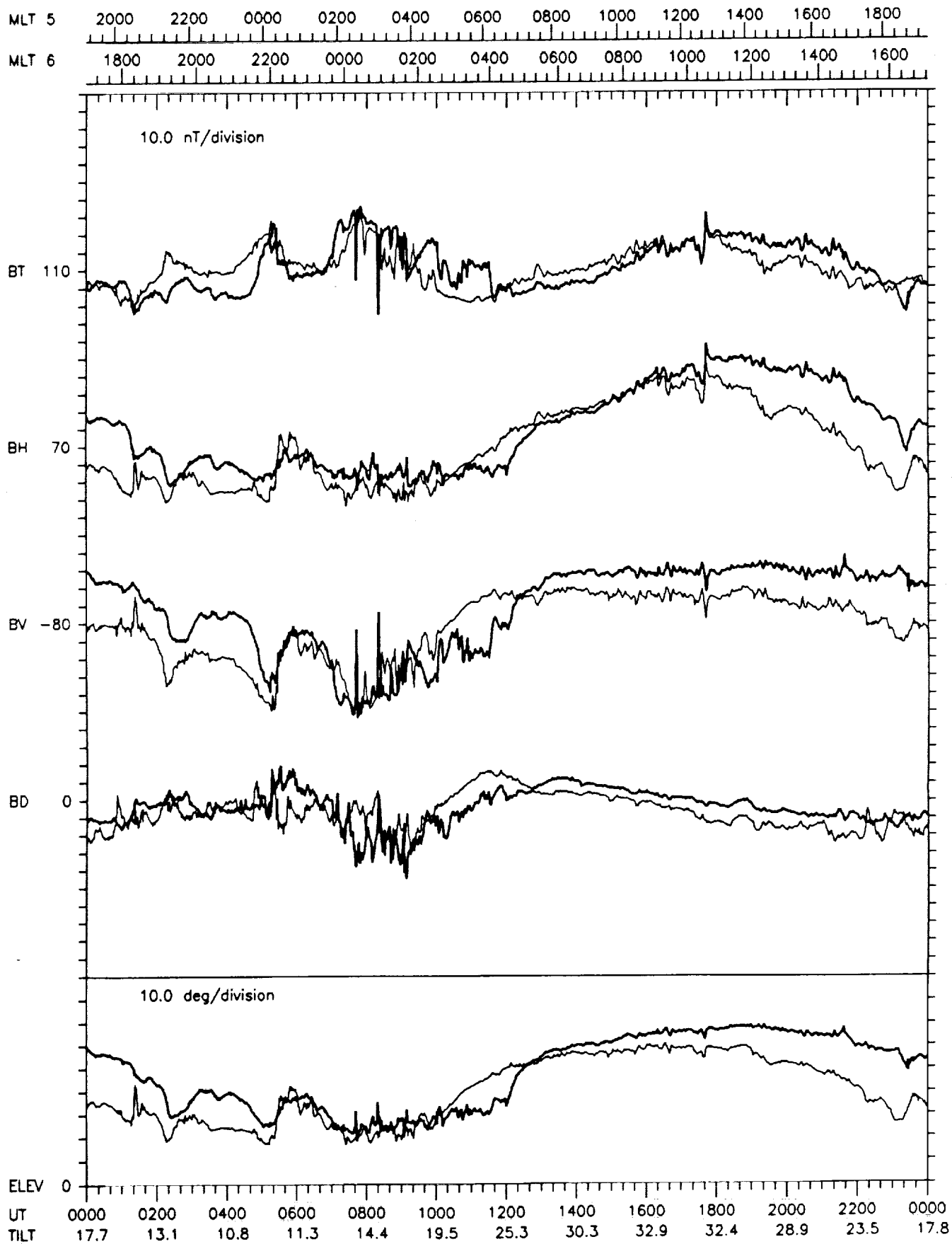
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY149 MAY 29
 GEOLON, MAGLAT = 5(-75.5, 11.2) 6(-108.1, 8.9)



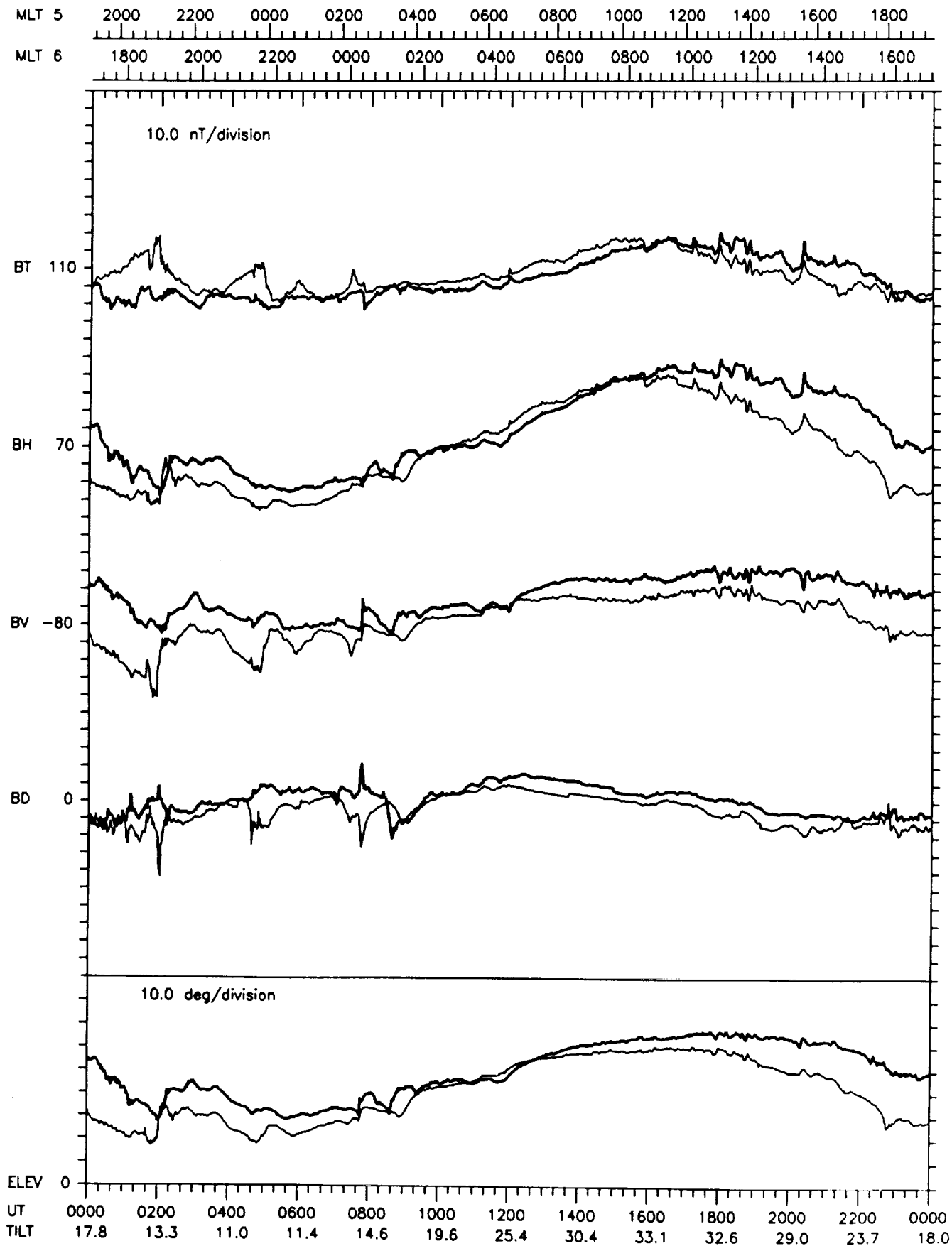
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY150 MAY 30
 GEOLON, MAGLAT = 5(-75.5, 11.2) 6(-108.1, 8.9)



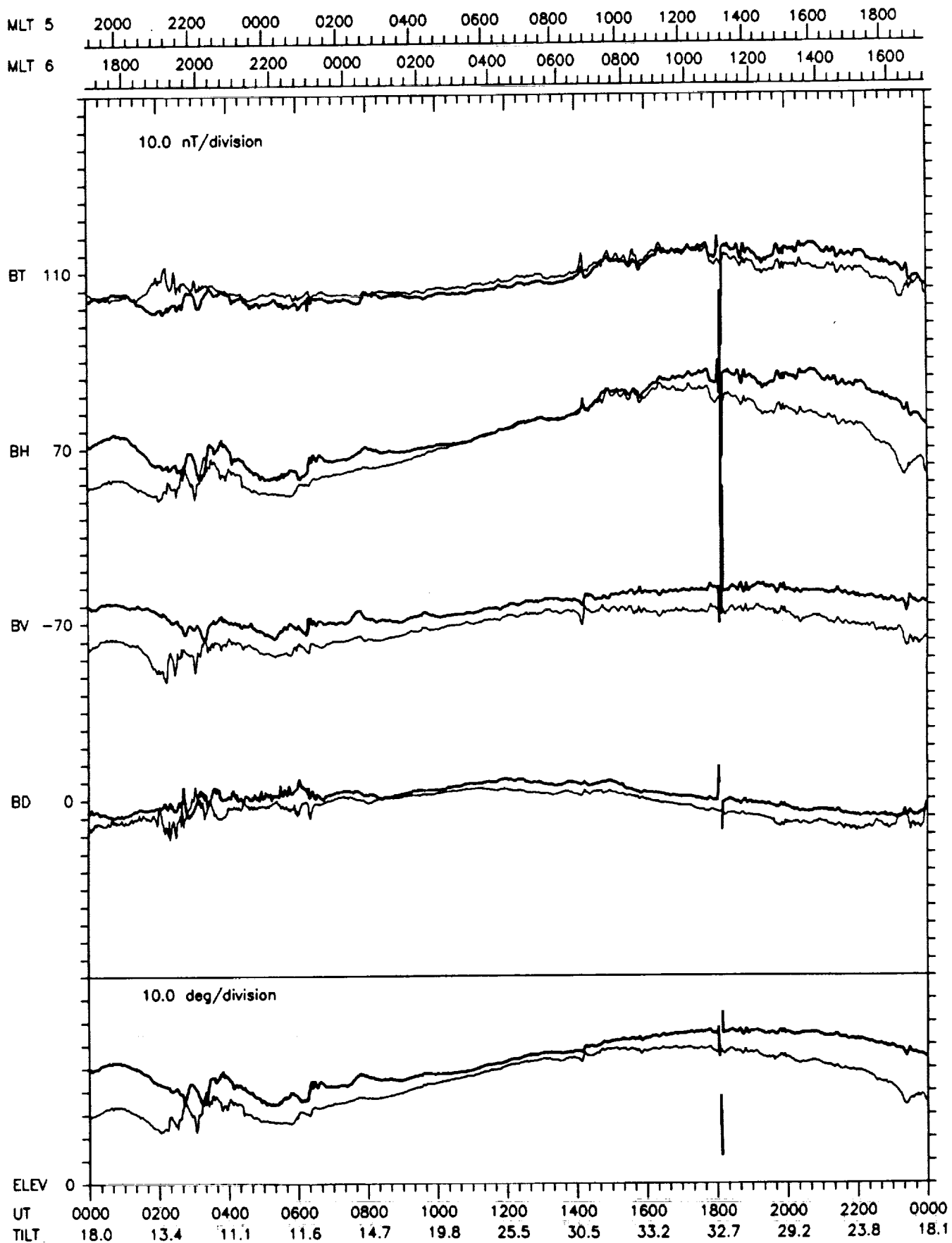
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY151 MAY 31
 GEOLON, MAGLAT = 5(-75.6, 11.2) 6(-108.1, 8.9)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY152 JUN 1
 GEOLON, MAGLAT = 5(-75.6, 11.2) 6(-108.2, 8.9)

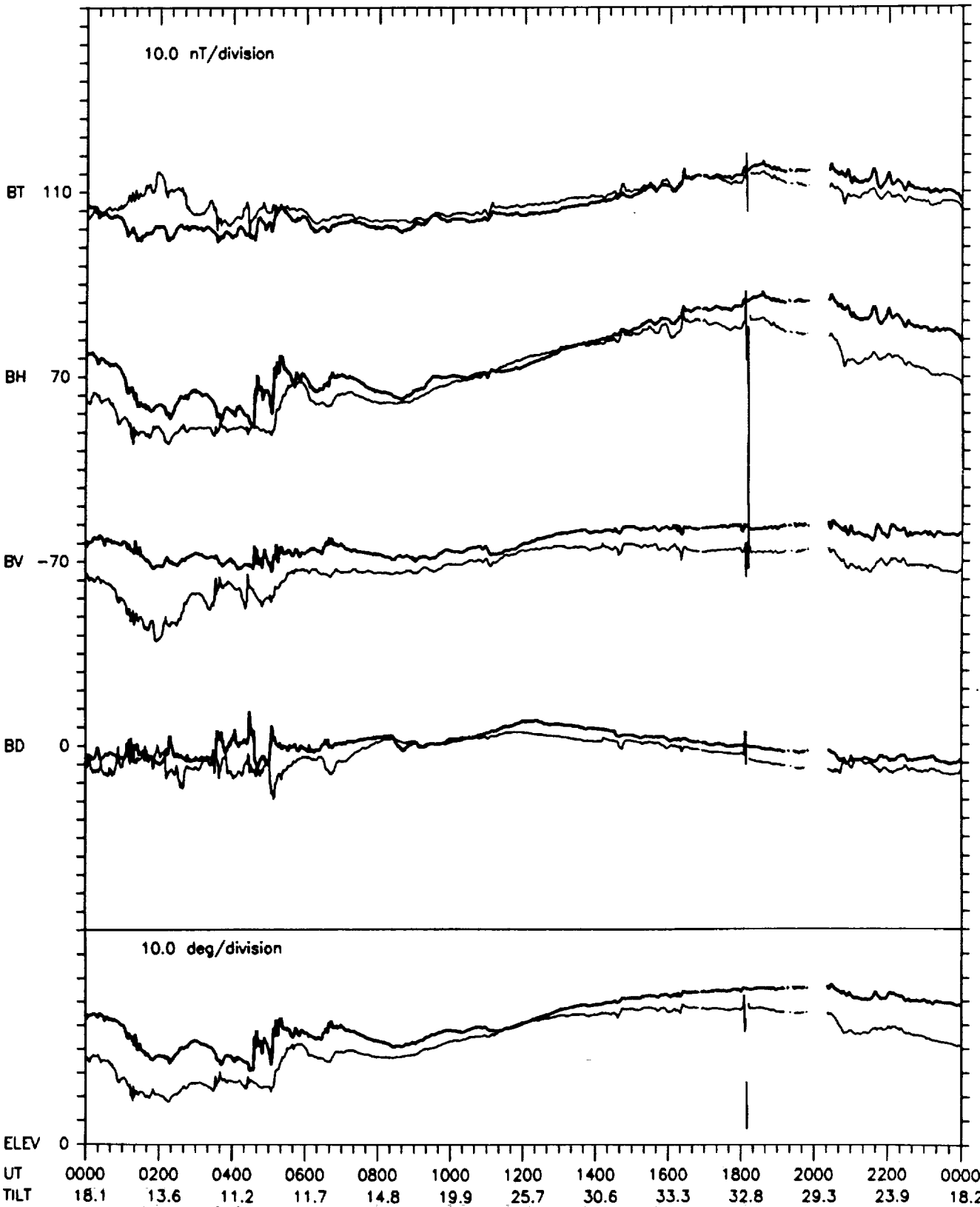


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY153 JUN 2
 GEOLON, MAGLAT = 5(-75.6, 11.2) 6(-108.2, 8.9)

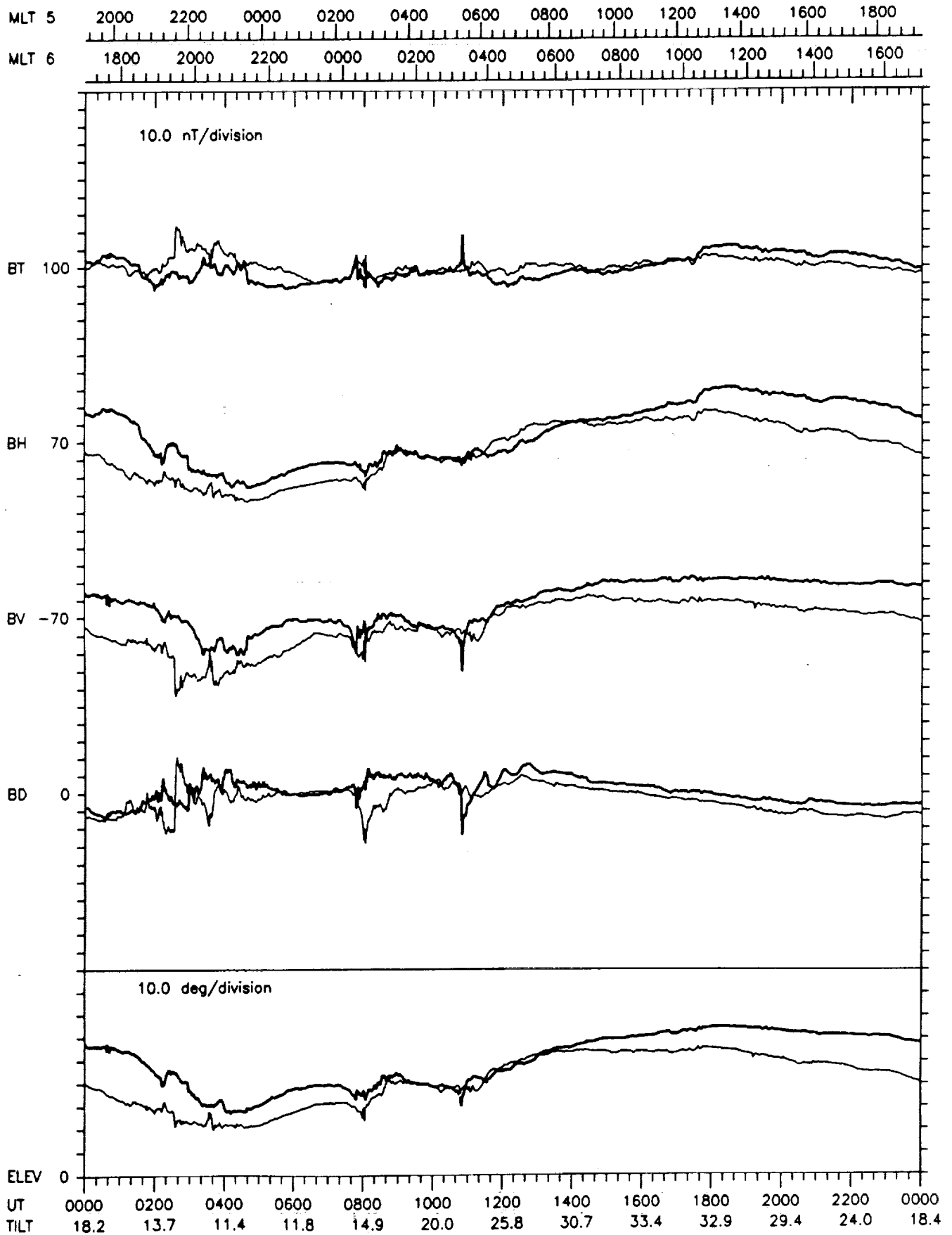


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY154 JUN 3
 GEOLON, MAGLAT = 5(-75.6, 11.2) 6(-108.2, 8.9)

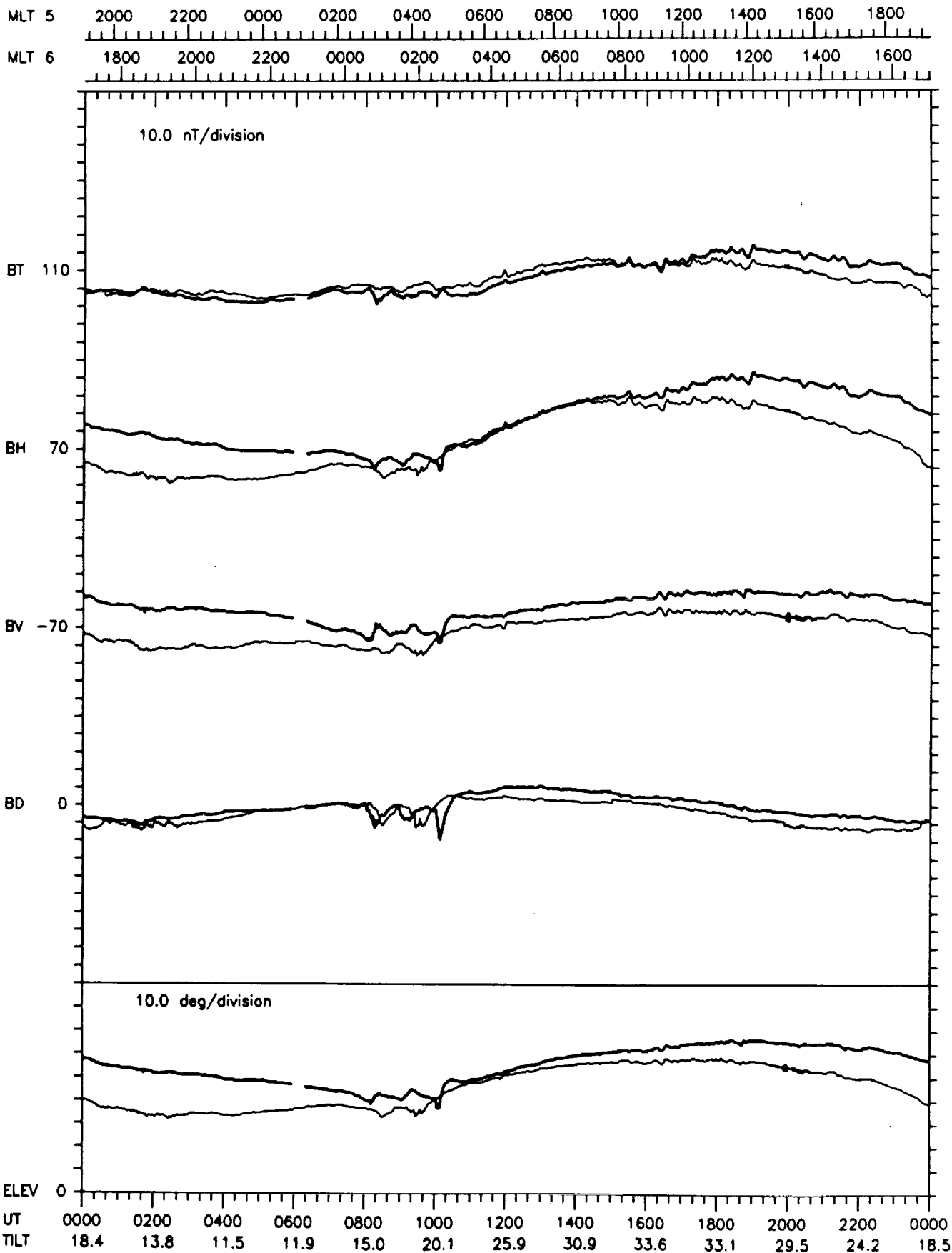
MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800
 MLT 6 1800 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600



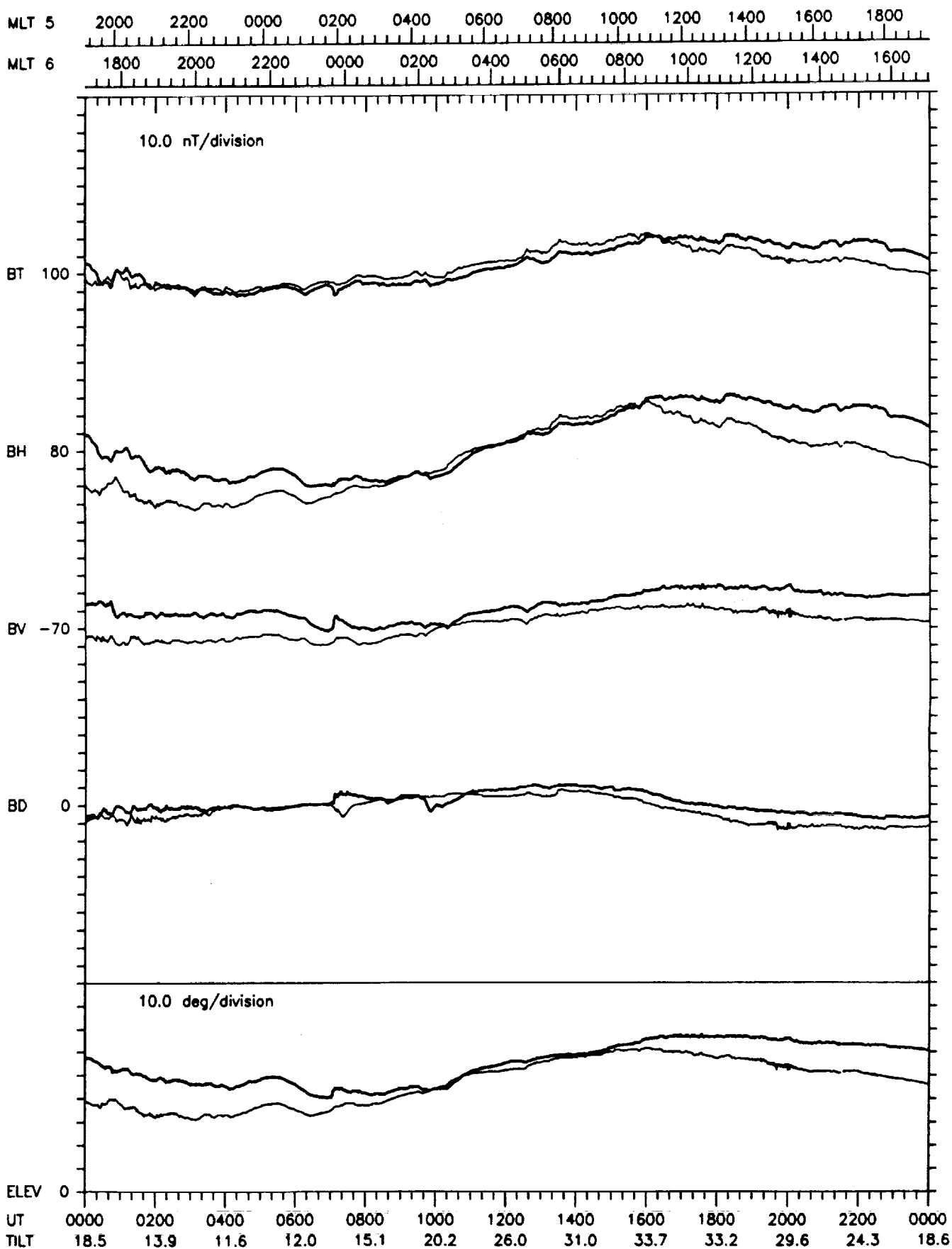
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY155 JUN 4
 GEOLON, MAGLAT = 5(-75.7, 11.2) 6(-108.2, 8.9)



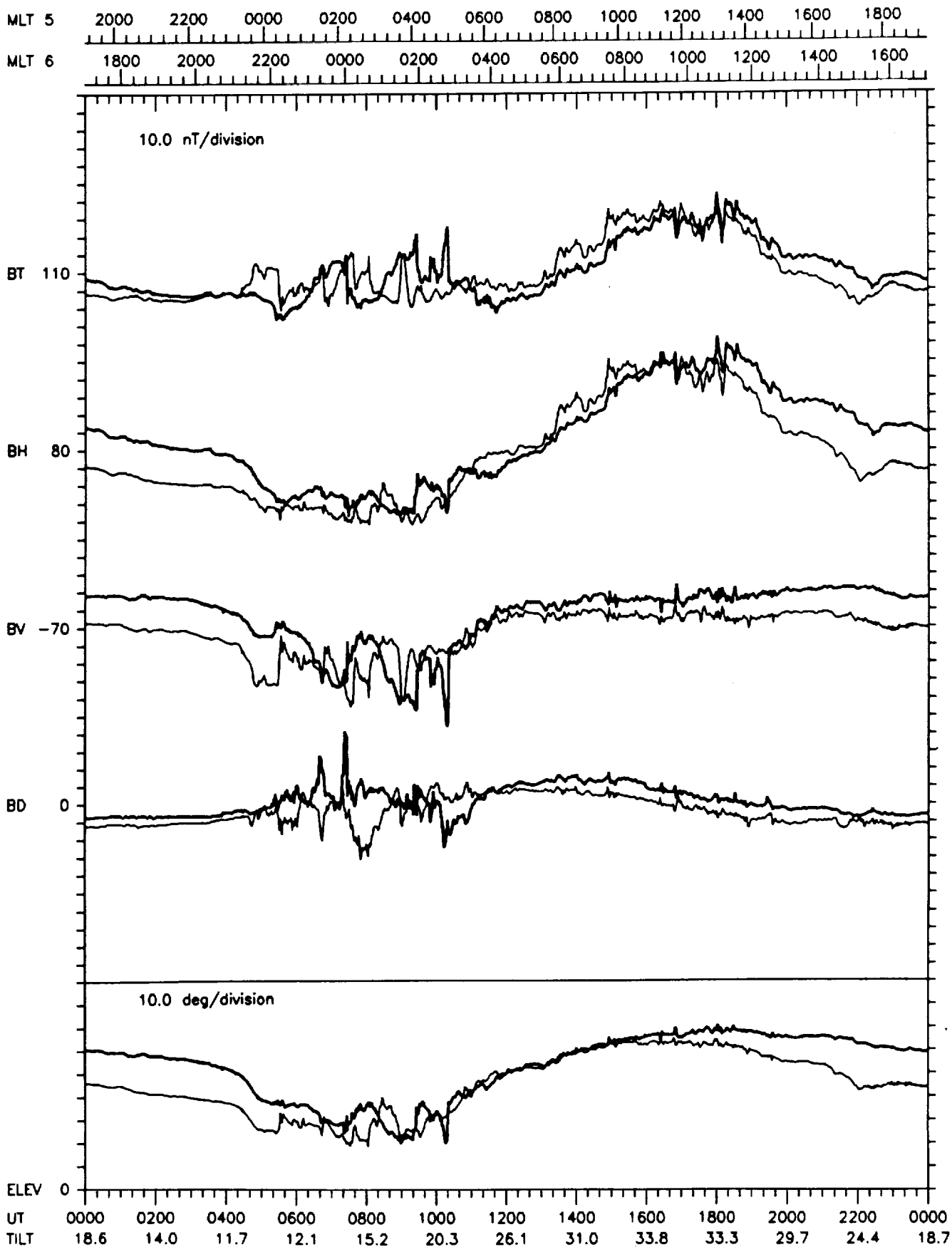
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY156 JUN 5
 GEOLON, MAGLAT = 5(-75.7, 11.2) 6(-108.2, 8.9)



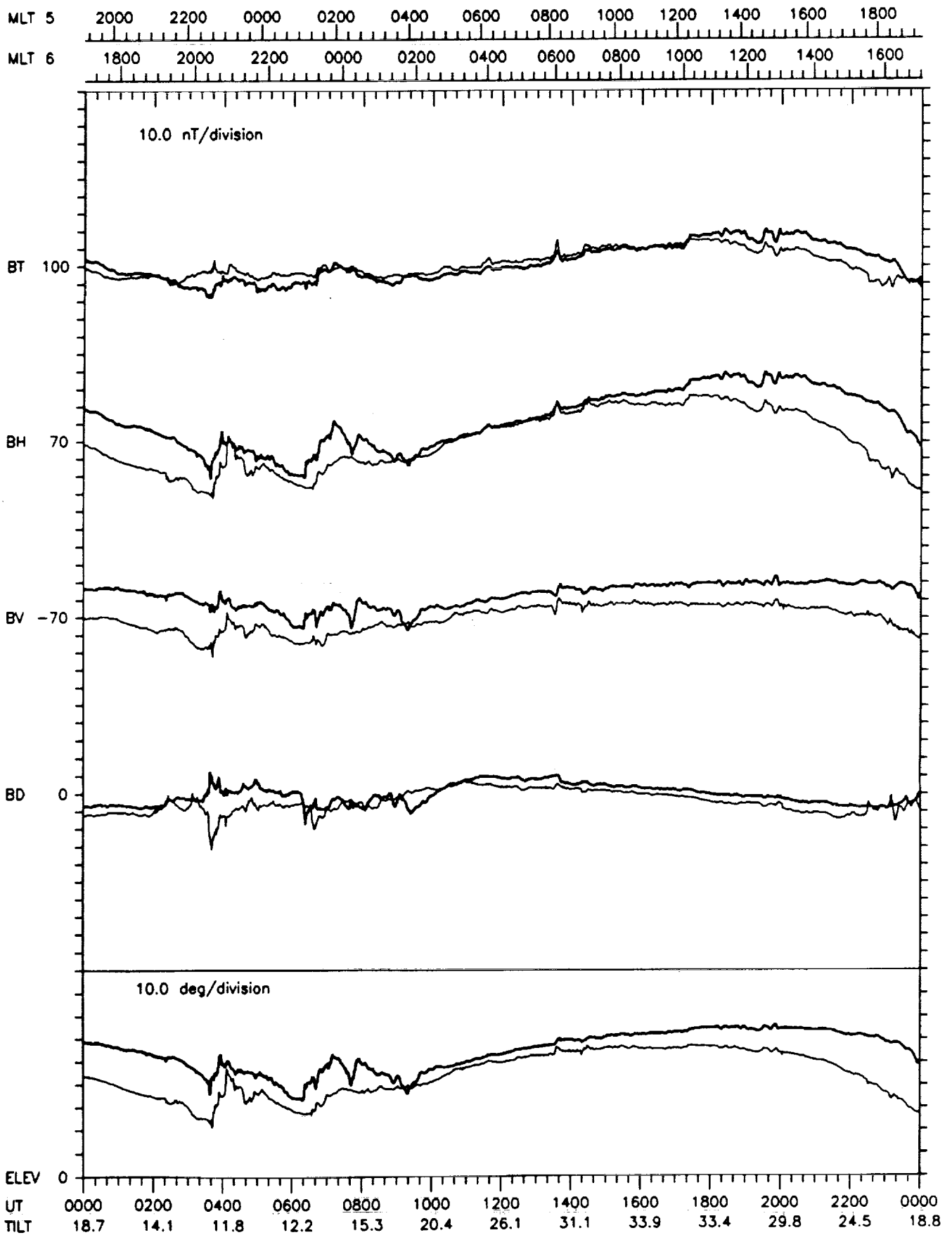
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY157 JUN 6
 GEOLON, MAGLAT = 5(-75.7, 11.2) 6(-108.2, 8.9)



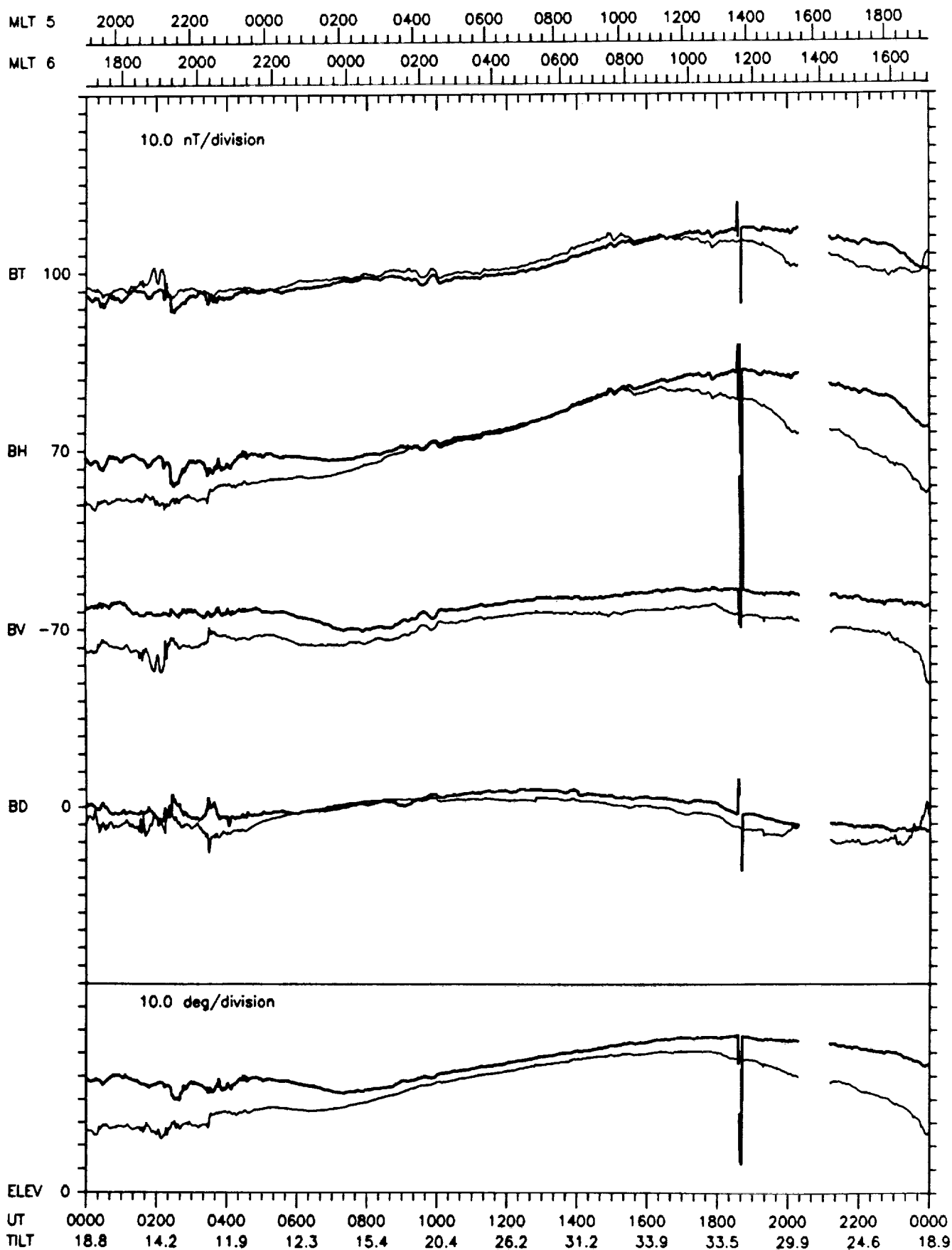
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY158 JUN 7
 GEOLON, MAGLAT = 5(-75.8, 11.2) 6(-108.2, 8.9)



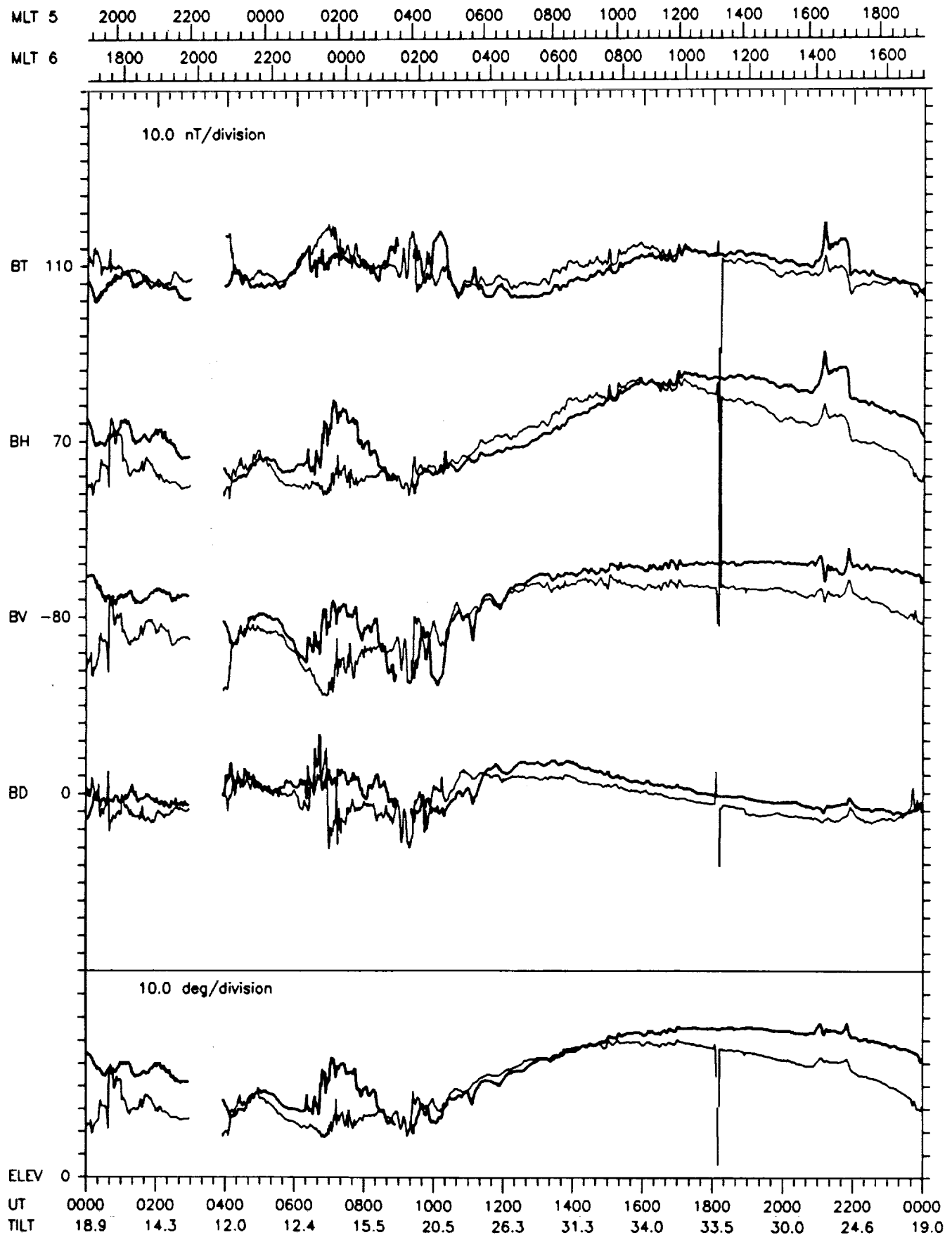
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY159 JUN 8
 GEOLON, MAGLAT = 5(-75.8, 11.2) 6(-108.2, 8.9)



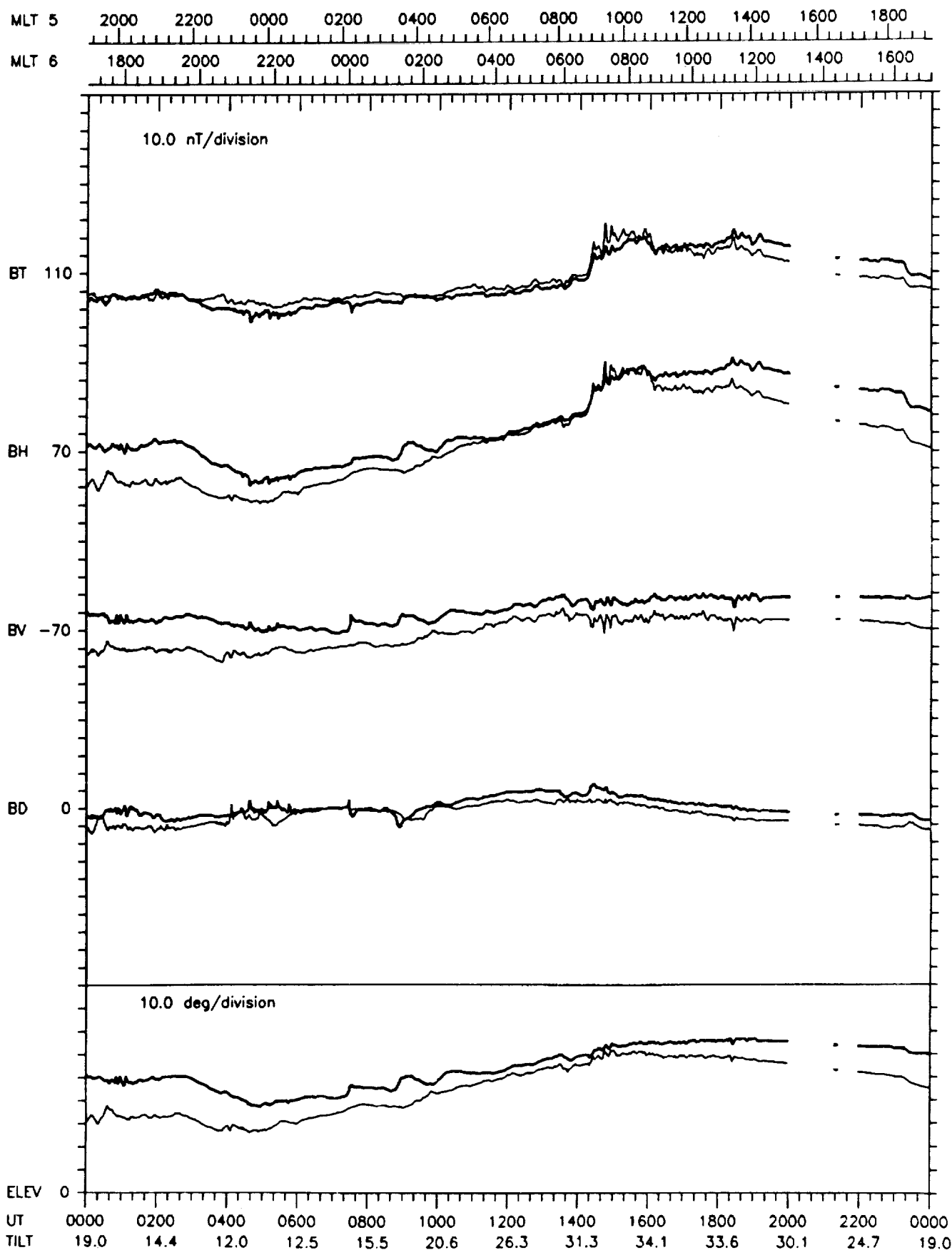
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY160 JUN 9
 GEOLON, MAGLAT = 5(-75.8, 11.2) 6(-108.2, 8.9)



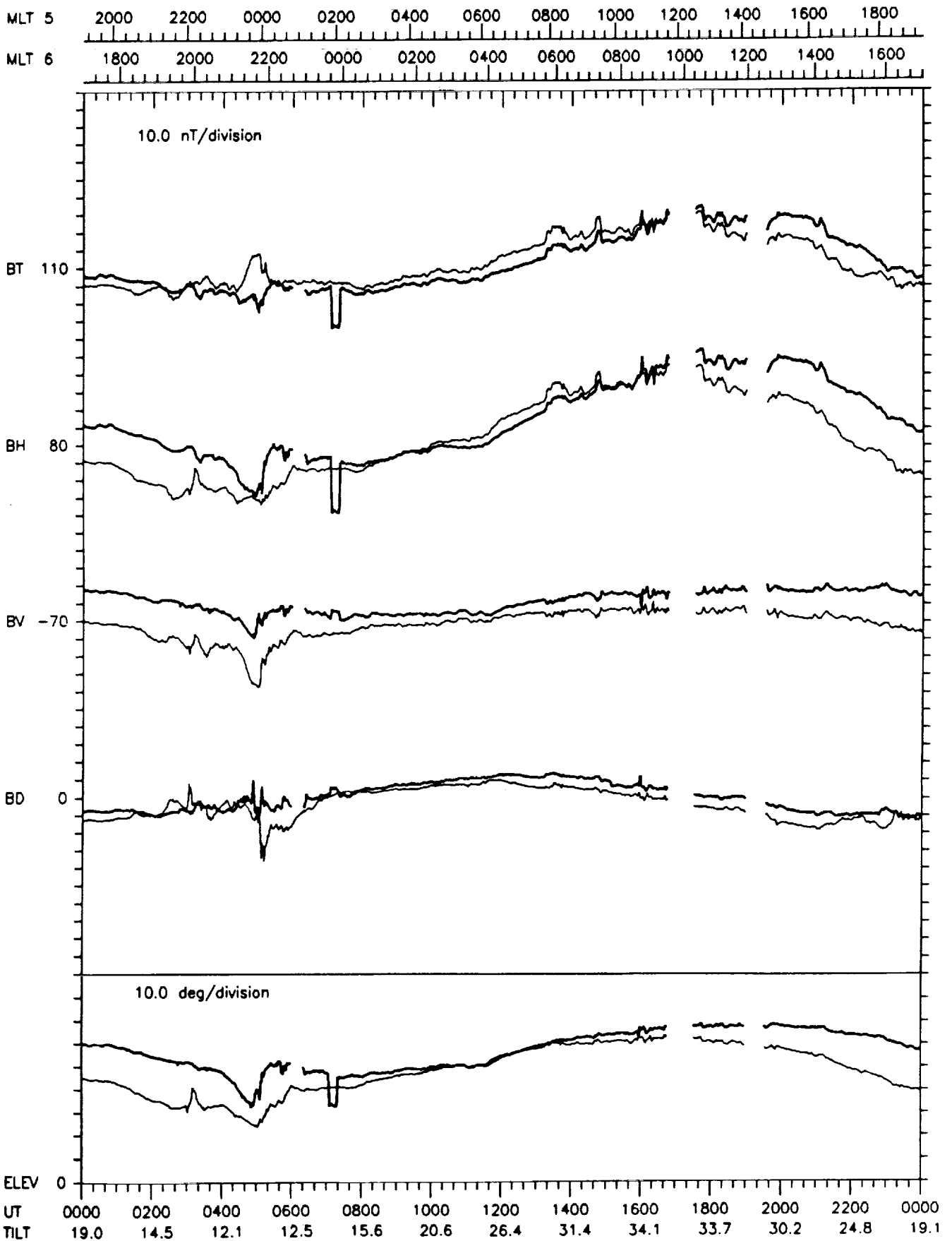
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY161 JUN 10
 GEOLON, MAGLAT = 5(-75.8, 11.2) 6(-108.2, 8.9)



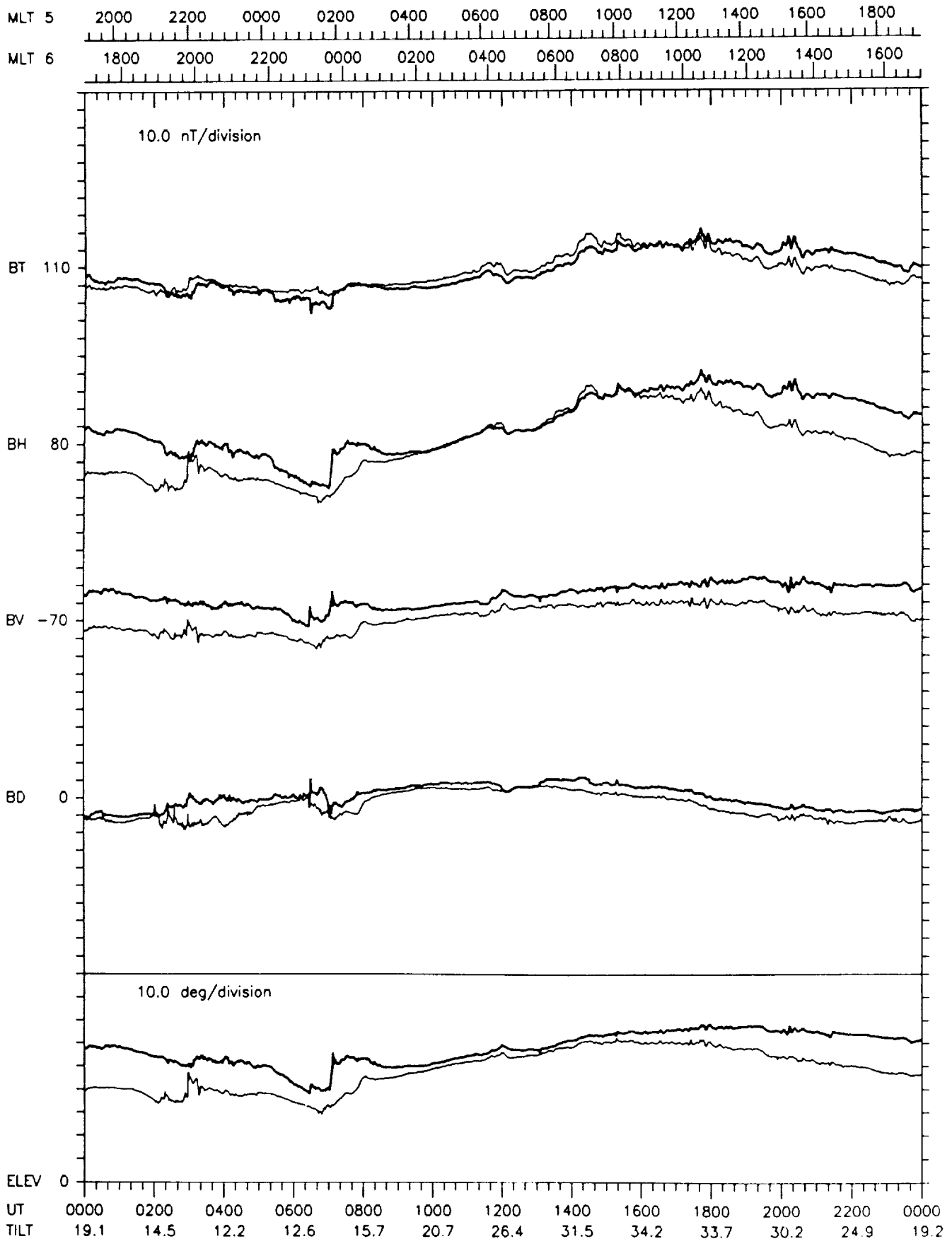
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY162 JUN 11
 GEOLON, MAGLAT = 5(-75.9, 11.2) 6(-108.2, 8.9)



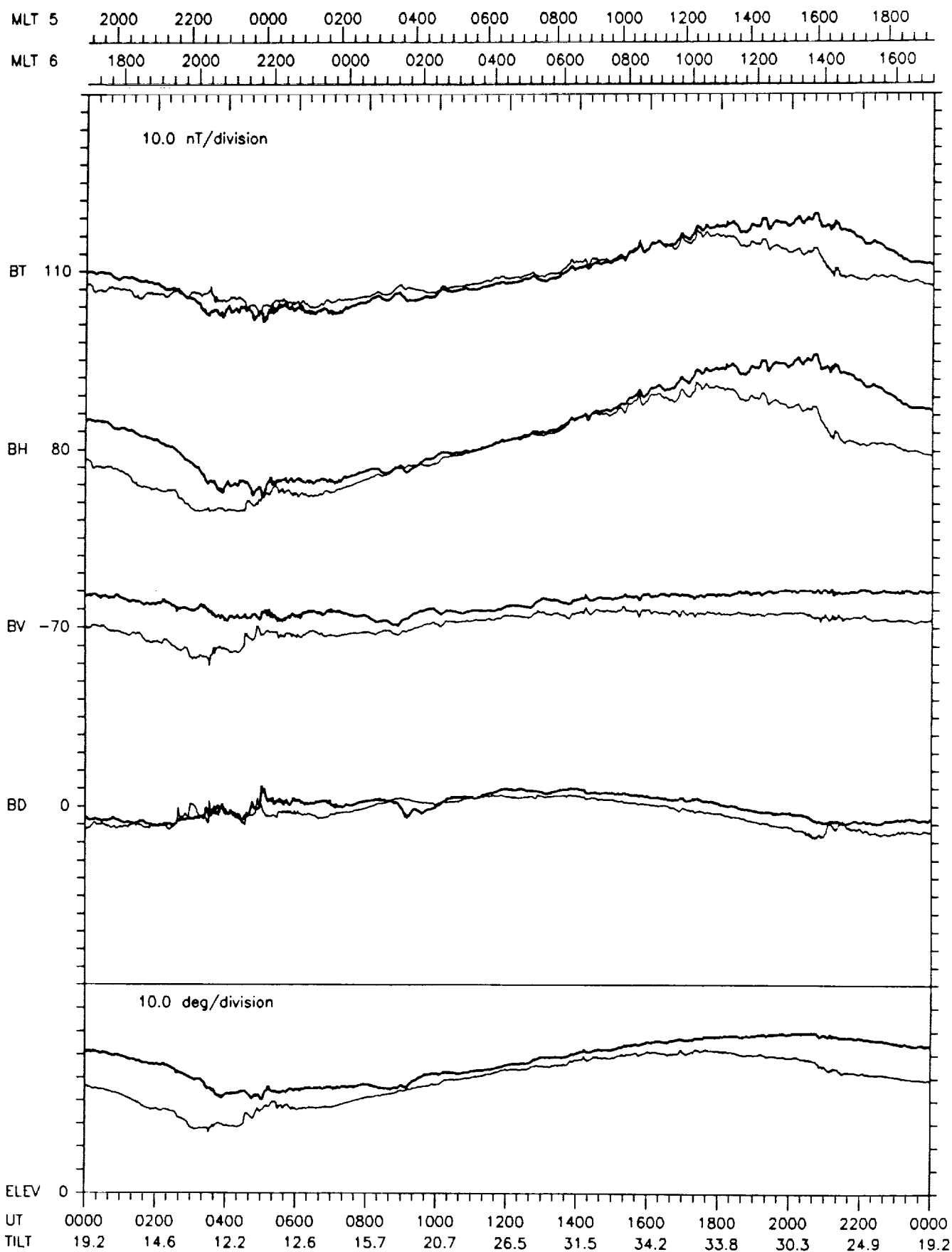
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY163 JUN 12
 GEOLON, MAGLAT = 5(-75.8, 11.2) 6(-108.2, 8.9)



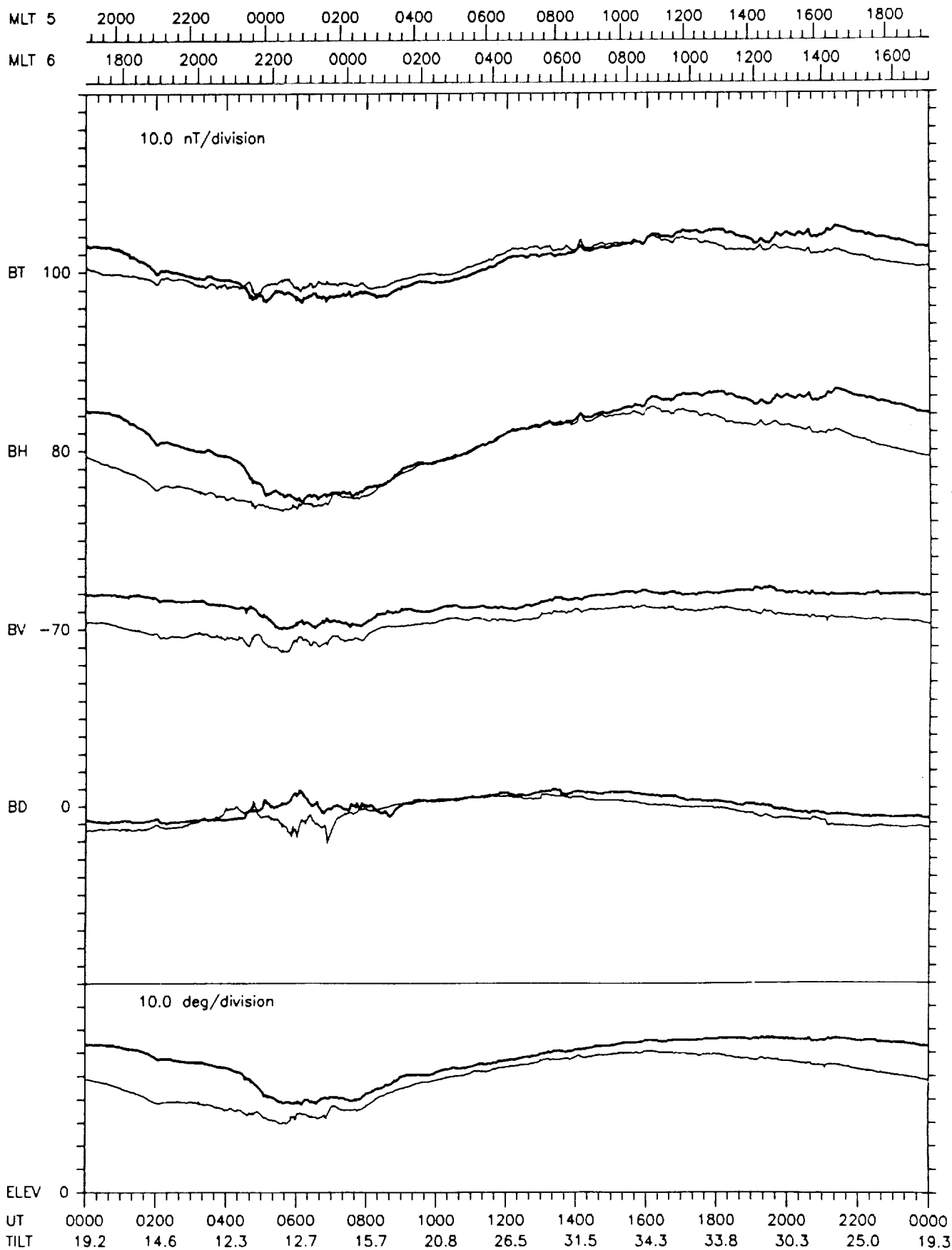
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY164 JUN 13
 GEOLON, MAGLAT = 5(-75.8, 11.2) 6(-108.3, 8.9)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY165 JUN 14
 GEOLON, MAGLAT = 5(-75.7, 11.2) 6(-108.3, 8.9)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY166 JUN 15
 GEOLON, MAGLAT = 5(-75.6, 11.2) 6(-108.3, 8.9)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES
 1986 DAY167 JUN 16
 GEOLON, MAGLAT = 5(-75.6, 11.2) 6(-108.3, 8.9)

